YAMAHA

Marine

Water Vehicles

Yamaha
Champion
929-4633

Ask
1-800-243-3033

WaveVenture

WVT760V
WVT1100V

1997

OWNER'S/OPERATOR'S MANUAL

READ THIS MANUAL CAREFULLY!

U.S.A.Edition

YAMAHA MOTOR CORPORATION, U.S.A.

EJA00010

TO THE OWNER

Thank you for choosing a Yamaha Water Vehicle. This Owner's Manual contains information you will need for proper operation, maintenance, and care. A thorough understanding of these simple instructions will help you to obtain maximum enjoyment from your new Yamaha. If you have any questions about the operation or maintenance of your water vehicle, please consult a Yamaha dealer.

YAMAHA MOTOR CO., LTD.

Because Yamaha has a policy of continuing product improvement, this product may not be exactly as described in this Owner's Manual. Specifications are subject to change without notice.
This manual should be considered a permanent part of this water vehicle and should remain with it even if the vehicle is subsequently sold.

IMPORTANT MANUAL INFORMATION:
In this manual, information of particular importance is distinguished in the following ways:

⚠ The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

⚠WARNING

Failure to follow WARNING instructions could result in severe injury or death to the machine operator, a bystander, or a person inspecting or repairing the water vehicle.

CAUTION:

A CAUTION indicates special precautions that must be taken to avoid damage to the water vehicle.

NOTE:

A NOTE provides key information to make procedures easier or clearer.

EJA10010***

WAVEVENTURE
OWNER'S/OPERATOR'S MANUAL
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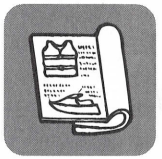

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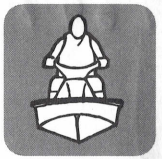

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READ THIS OWNER'S / OPERATOR'S MANUAL CAREFULLY BEFORE OPERATING YOUR WATER VEHICLE.

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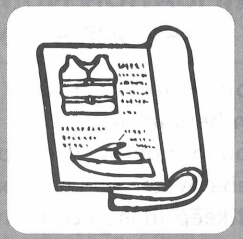

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Chapter 1

GENERAL AND SAFETY INFORMATION

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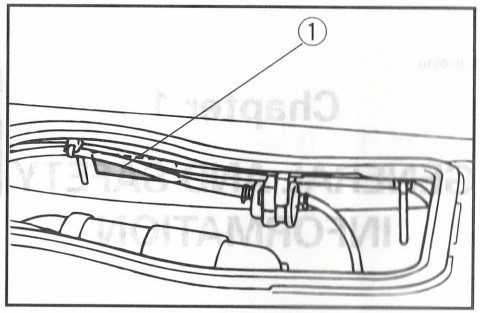

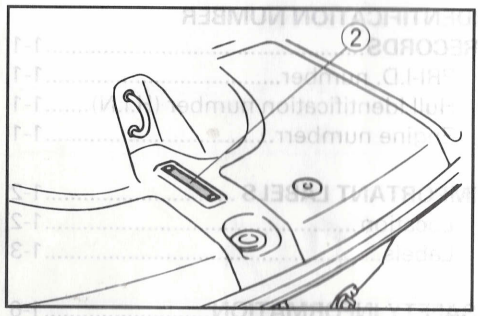

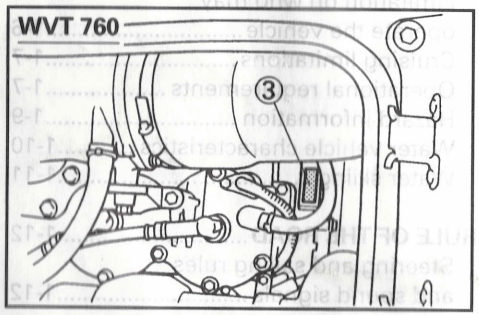

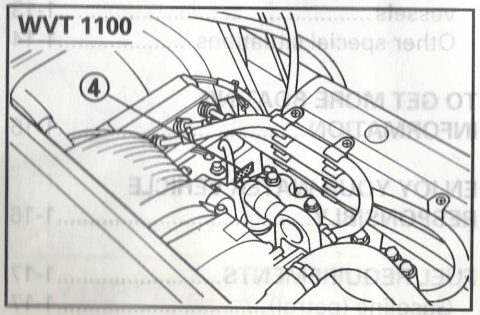

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IDENTIFICATION NUMBER RECORDS

Record your Primary, H.I.N. I.D., and engine numbers in the spaces provided, to assist you in ordering spare parts from your Yamaha Water Vehicle dealer. Also record and keep these I.D. numbers in a separate place in case your water vehicle is stolen. Model WVT1100V

EJB10015

PRI-I.D. NUMBER JS143-0816

MODEL YAMA 333
PRI-ID 6341697
YAMAHA MOTOR CO., LTD.
MADE IN JAPAN
PAYS D'ORIGINE JAPON

The Primary I.D. number is stamped on a label ① attached to the inside of the engine compartment.

EJB12110

HULL IDENTIFICATION NUMBER(H.I.N)

YAMA634K697

The H.I.N. is stamped on a plate ② attached to the rear end of the footrest floor.

EJB14410

ENGINE NUMBER

YAMAHA JT1100B70
MARK M8
YAMAHA MOTOR CO., LTD.
MADE IN JAPAN
PAYS D'ORIGINE JAPON 017261

WVT760

The Engine serial number is stamped on a label ③ attached to the crankcase.

WVT1100

The engine serial number is stamped on a label ④ attached on the back side of the electrical box.

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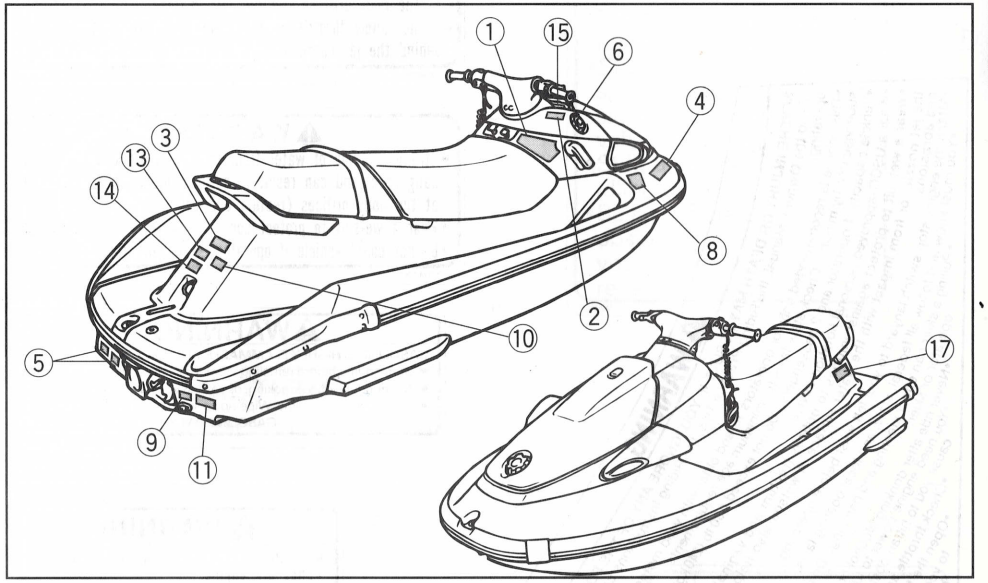
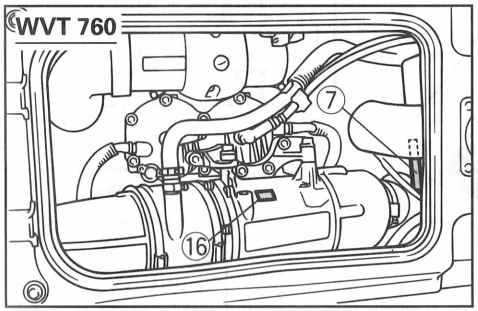
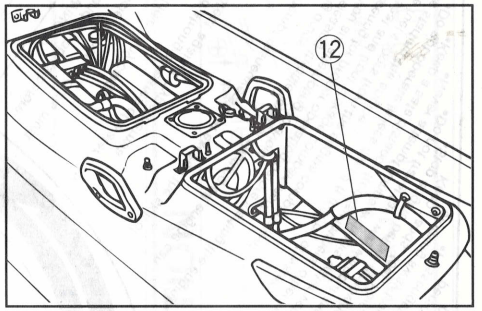
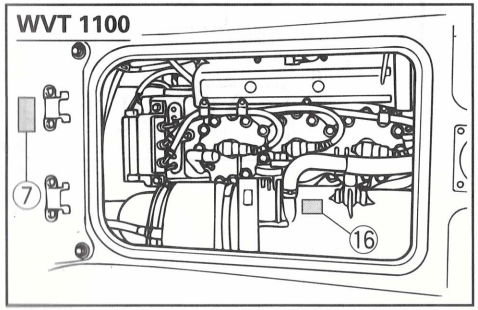
IMPORTANT LABELS

LOCATION





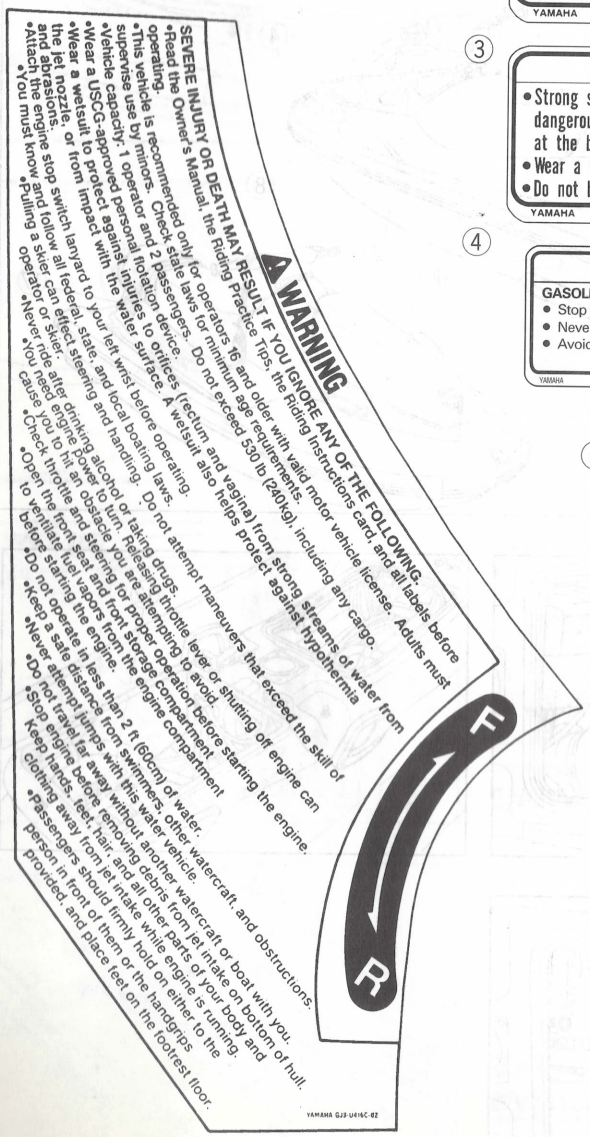




LABELS

Warning labels

①


WARNING
SEVERE INJURY OR DEATH MAY RESULT IF YOU IGNORE ANY OF THE FOLLOWING:
•Read the Owner's Manual, the Riding Practice Tips, the Riding Instructions card, and all labels before operating.
•This vehicle is recommended only for operators 16 and older with valid motor vehicle license. Adults must supervise use by minors. Check state laws for minimum age requirements.
•Vehicle capacity: 1 operator and 2 passengers. Do not exceed 530 lb (240kg), including any cargo.
•Wear a USCG-approved personal flotation device. A wetsuit also helps protect against hypothermia and abrasions.
•Wear a wetsuit to protect against injuries to orifices (rectum and vagina) from strong streams of water from the jet nozzle, or from impact with the water surface. A wetsuit to protect against hypothermia
•Attach the engine stop switch lanyard to your left wrist before operating.
•You must know and follow all federal, state, and local boating laws.
•Pulling a skier can effect steering and handling. Do not attempt maneuvers that exceed the skill of operator or skier.
•Never ride after drinking alcohol or taking drugs.
•You need engine power to turn. Releasing throttle lever or shutting off engine can cause you to hit an obstacle you are attempting to avoid.
•Check throttle and steering for proper operation before starting the engine.
•Open the front seat and front storage compartment to ventilate fuel vapors from the engine compartment before starting the engine.
•Do not operate in less than 2 ft (60cm) of water.
•Keep a safe distance from swimmers, other watercraft, and obstructions.
•Never attempt jumps with this water vehicle.
•Do not travel far away without another watercraft or boat with you.
•Stop engine before removing debris from jet intake on bottom of hull. Keep hands, feet, hair, and all other parts of your body and clothing away from jet intake while engine is running.
•Passengers should firmly hold on either to the person in front of them or the handgrips provided, and place feet on the footrest floor.
F
R
YAMAHA GJ3-U416C-02

②

⚠ WARNING

- Strong streams of water from the jet nozzle can be dangerous, and can result in serious injury when directed at the body orifices (rectum and vagina).
- Do not apply throttle when someone is in the water behind the jet nozzle or when a passenger is climbing on.

YAMAHA GJ3-U415E-11

③

⚠ WARNING

- Strong streams of water from the jet nozzle can be dangerous, and can result in serious injury when directed at the body orifices (rectum and vagina).
- Wear a wetsuit to protect body.
- Do not board vehicle if operator is applying throttle.

YAMAHA GJ1-U415F-01

④

⚠ WARNING

GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE.

- Stop engine before refueling. Refuel in well ventilated area.
- Never refuel while smoking, or around sparks or flames.
- Avoid spilling gasoline. Wipe up spilled gasoline immediately.

GASOLINE ONLY

YAMAHA GA9-U416B-00

⑤

⚠ WARNING

IMPROPER UPRIGHTING CAN CAUSE INJURY.
- Shut off engine.
- Do not put hand in intake grille.
- Watch so you are not hit by vehicle as it comes over.

TO TURN OVER:
- Pull vehicle over with left hand on ride plate while pushing down on gunwale with right hand/foot.

YAMAHA

⑤

⑥

⚠ WARNING

Do not add gasoline to the oil tank. Fire or explosion could result.

YAMAHA GD0-U416F-00

⑦

⚠ WARNING

Do not touch or remove electrical parts when starting or running the engine.

YAMAHA 6R7-83623-40

⑧

⚠ WARNING

SHIFT LEVER OPERATION:
- Reverse is for low speed maneuvering only.
- Shifting to reverse is not a speed brake, and will not slow down or stop the vehicle from higher speeds.
- Shift only while engine is idling or off.
- Be sure there are no obstacles or people behind you when you operate in reverse.

YAMAHA GJ3-U416E-00

⑨

Caution labels

⑩

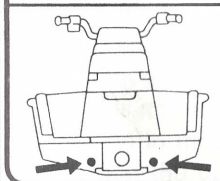
CAUTION

Cleat is only for mooring or pulling a water skier.
Do not use the cleat to lift vehicle.
Damage could occur.

GJ3-U411A-00

⑪

CAUTION



BEFORE LAUNCHING:

See Owner's Manual for draining procedure.
Make sure two drain plugs at the back of the hull are tightened securely.

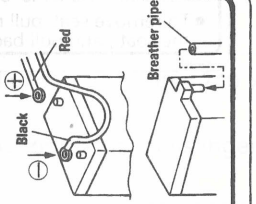
YAMAHA

⑫

CAUTION

BATTERY REMOVAL:
- Disconnect both battery leads and the breather pipe before removing battery.

BATTERY INSTALLATION:
- Connect red lead to positive (+) terminal. Connect black lead to negative (–) terminal. Reversing leads will damage electrical system.
- Make sure the breather pipe is connected after installation.



YAMAHA

⑬

CAUTION

HAND GRIPS ARE FOR BOARDING ONLY.
- Do not use to tow objects, lift vehicle, or attach tie downs.
- Damage could occur.

GJ3-U411A-00

Other labels

⑭

AFTER OPERATION

After removing from the water:
- **Flush drive system and hull with fresh water. Open the drain plug at the back of the hull.**
- **Start the engine and rapidly pull and release the throttle lever for 10-15 seconds to drain any left over water in the exhaust system.**
- **Refer to the Owner's Manual for complete maintenance and storage information.**

GJ3-U411A-00

⑮

RECOMMENDED OIL

YAMALUBE 2 STROKE OUTBOARD OIL or an equivalent TC-W3 certified outboard oil.

YAMAHA

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FIRE EXTINGUISHER

- Fire extinguisher is on underside of rear seat.
- To remove seat, pull rear seat latch up, lift rear of the seat , and pull back.

YAMAHA GJ3-U419B-00

EJB22010

SAFETY INFORMATION

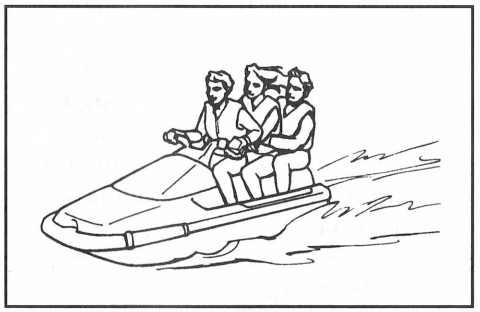
When you operate your Yamaha Water Vehicle, you must know and practice the following for your safety:

- Before operating the water vehicle, read this entire manual, the Riding Practice Tips, the Riding Instruction card and all warning labels on the water vehicle. Reading these materials should give you an understanding of the vehicle and its operation.
  Never allow anyone to operate this water vehicle until they too have read this Owner's Manual, the Riding Practice Tips, the Riding Instruction card and all warning labels.

EJB24210

LIMITATIONS ON WHO MAY OPERATE THE VEHICLE

- This vehicle is recommended only for operators 16 and older with a valid motor vehicle license.
  Even though a motor vehicle operator's license is not required for water vehicle operation in most states, it is one indicator that the operator has previously demonstrated a reasonable degree of maturity, responsibility, and good judgment.
  A responsible adult must supervise operation of this vehicle by minors.
  Many states have minimum age and education requirements. Always check states and all applicable local boating laws that apply to you before you operate the water vehicle.



- Your water vehicle is designed to carry the operator and one or two passengers, as long as the total weight does not exceed the maximum load capacity.

- Do not allow more than three people on your vehicle, even if the weight capacity is not exceeded.

ATTENTION:

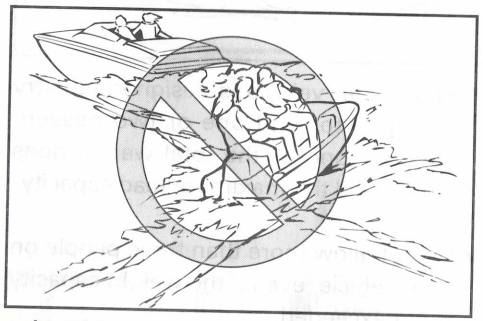
Maximum vehicle load capacity: 240 kg (530 lb)
Includes weight of operator, passengers, and any cargo.

- Do not try to ride with passengers until you have considerable practice riding alone. Operating with passengers requires more skill. Take the time to become accustomed to the handling characteristics of the vehicle with passengers before trying any difficult maneuvers.

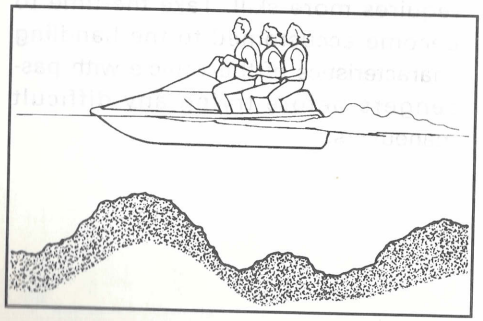
EJB28011

CRUISING LIMITATIONS

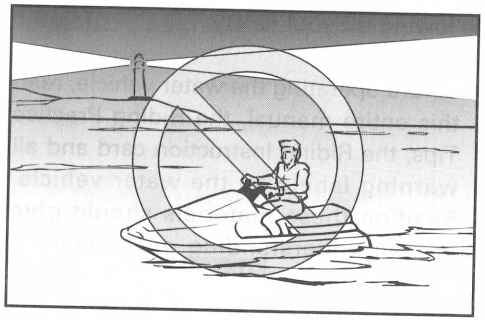
- Do not try to jump other boat's wakes or follow another boat or watercraft too closely. You increase your chance of colliding with the boat. Do not go over a water-ski jump, or attempt any other kind of jumping maneuver with the vehicle, you risk injuring yourself or damaging your water vehicle when landing from a jump.



- As with any water sport, you should not ride your water vehicle without someone else near by. If you ride further than swimming distance from shore, you should be accompanied by another boat or watercraft. It's good, common sense!
- Never ride in water that is less than 60 cm (2 feet) deep. You increase your chance of hitting an underwater obstacle. You could be injured.



- Do not operate water vehicle after sunset or before dawn. It is not equipped with lighting required for night operation. You risk collision with another boat which could cause injury or death.



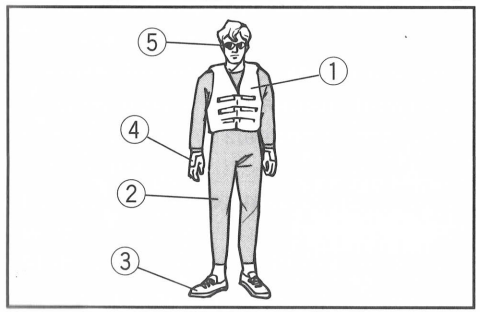
- Do not operate the vehicle in rough water, bad weather or when visibility is poor; this may lead to an accident causing injury or death. Be alert to the possibility of adverse weather. Take note of weather forecasts and the prevailing weather conditions before setting out on your water vehicle.

EJB30215

OPERATIONAL REQUIREMENTS

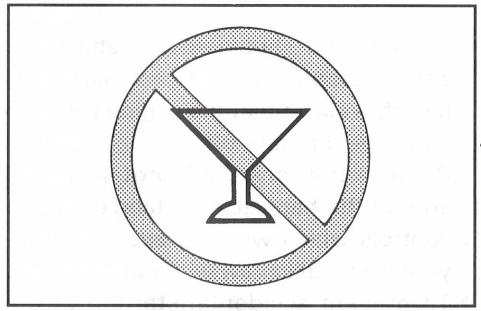
- Operating your water vehicle requires skills acquired only through practice over a period of time. Take the time to learn the basic operating techniques well, before attempting more difficult maneuvers.
- Both operator and passengers must always wear a U.S. Coast Guard approved personal flotation device (vest-type) because of the drowning hazards associated with water sports.

- Strong streams of water from the jet nozzle, or impact with the water surface can be dangerous. Both operator and passengers must wear wetsuits. Normal swimming attire may not adequately protect you. A wetsuit will help protect against internal injuries to orifices (rectum and vagina) from strong jet streams, and from impact with the water surface. Wetsuits also help protect against hypothermia (low body temperature) and abrasions.
- Both operator and passengers should wear water shoes to help protect feet from objects hidden under water. Wearing gloves can also help protect hands from abrasions.
- Wind, water, and glare from the sun may get in your eyes while you operate your water vehicle, reducing your ability to see. You may want to consider wearing eye protection such as sunglasses or goggles while riding. Some may find, however, that eye protection obstructs or distorts their vision, and distracts from operation. Only you know the circumstances in which you operate your water vehicle, so only you can decide if the benefits of eye protection outweigh the potential hazards.

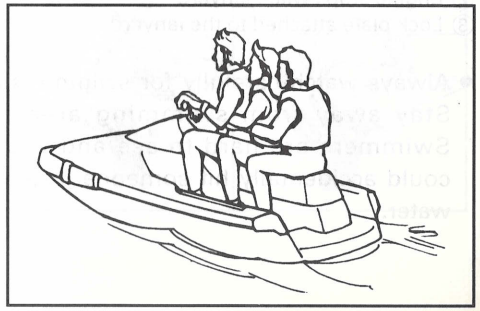


① U.S. Coast Guard-approved personal flotation device
② Wetsuit
③ Water shoes
④ Gloves
⑤ Eye protection

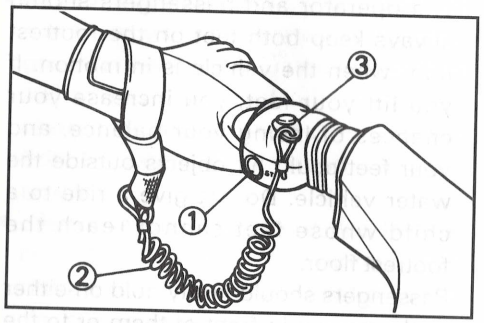
- NEVER ride the vehicle after consuming alcohol or taking drugs.



- For reasons of safety and proper care, always perform the pre-operation checks on page 3-3 before riding.
- The operator and passengers should always keep both feet on the footrest floor when the vehicle is in motion. If you lift your feet, you increase your chances of losing your balance, and your feet could hit objects outside the water vehicle. Do not give a ride to a child whose feet cannot reach the footrest floor.
  Passengers should firmly hold on-either to the person in front of them or to the handgrips provided.



- If you are pregnant or in poor health, ask your doctor's advice on whether it is safe for you to ride this water vehicle.
- Do not attempt to modify this water vehicle!
  Modifications to your machine may reduce safety and reliability, and may make the vehicle unsafe or illegal for use.
- The operator should always attach the engine stop switch lanyard (cable) to his left wrist so that the engine will stop if the operator falls off.
  Be sure the lanyard is not wrapped around the handlebar or tangled in the controls which would prevent the lanyard from pulling away.
- To prevent accidental starting of the engine, always remove the lock-plate from the stop switch when the engine is not running.



① Engine stop switch
② Engine stop switch lanyard
③ Lock-plate attached to the lanyard

- Always watch carefully for swimmers. Stay away from swimming areas. Swimmers are hard to see and you could accidentally hit someone in the water.
- Avoid being hit by another boat! You should always take the responsibility to watch for traffic, other boaters may not be watching for you. If they don't see you, or you maneuver more quickly than other boaters expect, you risk a collision.
  Maintain a safe distance from other boats or watercraft, and also watch for boat's ski ropes or fishing lines. Obey the "Rules of the Road" (see page 1-12~1-15), and be sure to check behind you before making a turn.

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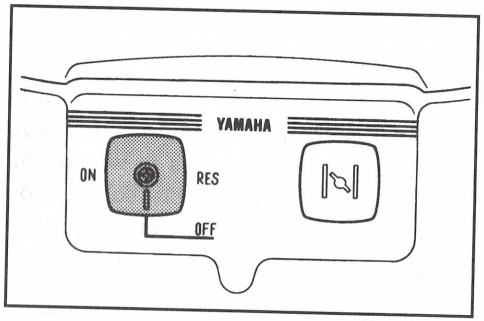
HAZARD INFORMATION

- When transporting or storing your water vehicle, always place the fuel cock in the "OFF" position. Otherwise, it is possible for gasoline to overflow from the carburetor.



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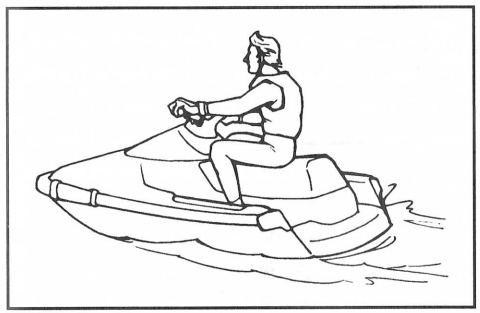
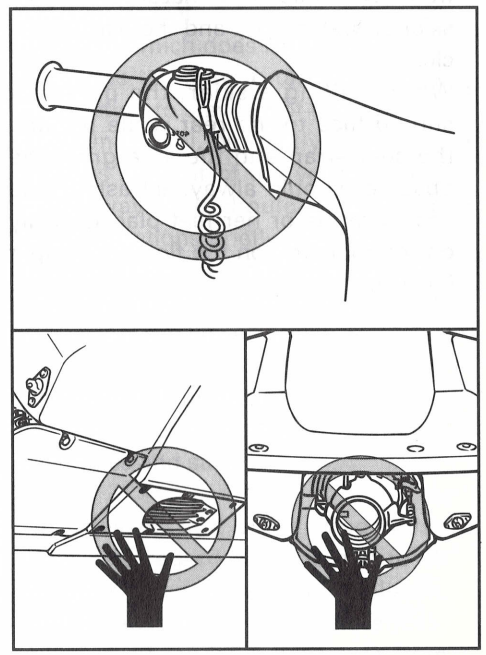
WATER VEHICLE CHARACTERISTICS



- Jet thrust turns the water vehicle. If you are going faster than trolling speeds (the lowest maneuvering speed), you must use throttle to turn. If you release the throttle completely, you cannot turn-even if you turn the handlebars. Practice turning in an open area without obstructions until you have a good feel for this maneuver.
- Yamaha Water Vehicles are water-jet propelled. The jet pump is directly connected to the engine. This means that jet thrust will produce some vehicle movement whenever the engine is running. There is no "neutral" position. You are either in "forward" or "reverse," depending upon shift lever position.
- Boats, including your water vehicle, do not have brakes.
  Release the throttle or stop the engine to slow down. Remember, however, that you have no steering control without throttle.
  Do not expect the "reverse" position to work as a brake.
  Shifting to reverse will not slow down or stop the vehicle from higher speeds.
- Keep the following in mind when using reverse:
  Reverse is for launching and low speed maneuvering only. Shift only when the engine is idling or off. Do not shift while applying throttle.
  Make sure there are no obstacles or people behind you before shifting into reverse.
- Keep hands, feet, hair, and all other parts of your body and clothing away from jet intake on the bottom of the hull while engine is running.
  Stop the engine and remove the stop switch lock plate before removing any debris or weeds which may have collected around the jet intake.
  Never insert any object in the jet pump outlet.



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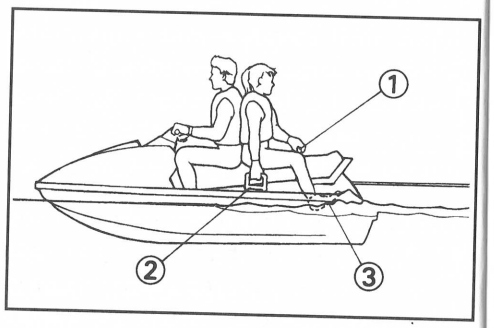
WATER SKIING

You can use this water vehicle to pull a water skier. Keep the following in mind when using the water vehicle for skiing.

- Because this water vehicle does not have the size or thrust of a traditional ski boat, pulling a skier can affect steering and handling.
- Your control while pulling a skier is affected by the skier's ability, as well as water and weather conditions.
- The operator should be comfortable carrying passengers before attempting to pull a skier.
- Make gradual turns ; sharp turns require a high level of skill for both the operator and skier.
- Watch for obstacles or other boating traffic which could be hazardous to the skier as well as you and the water vehicle.
- When pulling a skier, the observer should face to the rear while holding the seat strap and the side grip. The observer should always sit astride the seat with his or her feet placed firmly on the foot step on the floor for proper balance.
- Towing certain objects (such as other boats or watercraft, or heavy or bulky items) can cause loss of steering control and create a hazardous condition. If a suitable object must be towed, ride slowly and cautiously.



① Seat strap
② Side grip
③ Foot step

EJB40011

RULES OF THE ROAD

Your Yamaha water vehicle is legally considered a power boat. Operation of the water vehicle must be in accordance with the rules and regulations governing the waterway on which it is used.

Just as there are rules which apply when you are driving on streets and highways, there are waterway rules which apply when you are riding your water vehicle. These rules are used internationally, and are also enforced by the United States Coast Guard and local agencies. You should be aware of these rules, and follow them whenever you encounter another vessel on the water.

Several sets of rules prevail according to geographic location, but are all basically the same as the International Rules of the Road. The rules presented here in your Owner's Manual are condensed, and have been provided for your convenience only. Consult your local U.S. Coast Guard Auxiliary or Department of Motor Vehicles for a complete set of rules governing the waters in which you will be riding your water vehicle.

⚠WARNING

Do not operate water vehicle after sunset or before dawn. It is not equipped with lighting required for night operation. You risk collision with another boat which could cause injury or death.

STEERING AND SAILING RULES AND SOUND SIGNALS

Whenever two vessels on the water meet one another, one vessel has the right-of-way; it is called the "stand-on" vessel. The vessel which does not have the right-of-way is called the "give-way" or "burdened" vessel. These rules determine which vessel has the right-of-way, and what each vessel should do.

Stand-On Vessel

The vessel with the right-of-way has the duty to continue its course and speed, except to avoid an immediate collision. When you maintain your direction and speed, the other vessel will be able to determine how best to avoid you.

Give-Way Vessel

The vessel which does not have the right-of-way has the duty to take positive and timely action to stay out of the way of the Stand-On vessel. Normally, you should not cross in front of the vessel with the right-of-way. You should slow down or change directions briefly and pass behind the other vessel. You should always move in such a way that the operator of the other vessel can see what you are doing.

"The General Prudential Rule"
This rule is called Rule 2 in the International Rules and says,

> 'In obeying and construing these rules due regard shall be had to all dangers of navigation and collision, and to any special circumstances, which may render a departure from the above rules necessary in order to avoid immediate danger.'

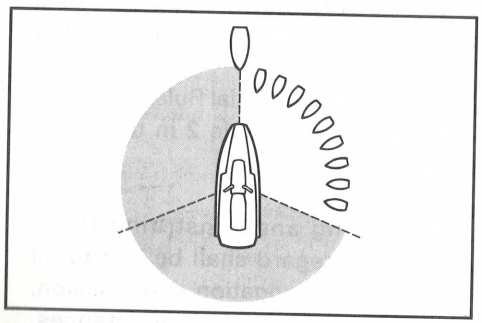
In other words, follow the standard rules except when a collision will occur unless both vessels try to avoid each other. If that is the case, both vessels become "Give-Way" vessels.

RULES WHEN ENCOUNTERING VESSELS

There are three main situations which you may encounter with other vessels which could lead to a collision unless the Steering Rules are followed:

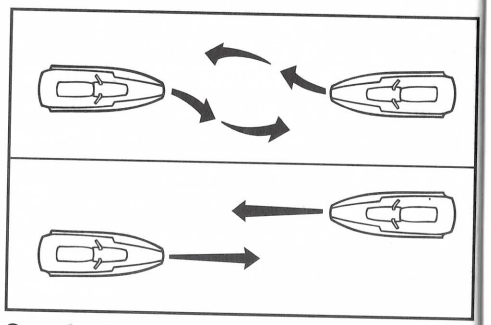
Meeting (you are approaching another vessel head-on)
Crossing (you are traveling across the other vessel's path)
Overtaking (you are passing or being passed by another vessel)

In the following illustration, your water vehicle is in the center. You should give the right-of-way to any vessels shown in the white area (you are the Give-Way vessel). Any vessels in the shaded area must yield to you (they are the Give-Way vessels). Both you and the meeting vessel must alter course to avoid each other.



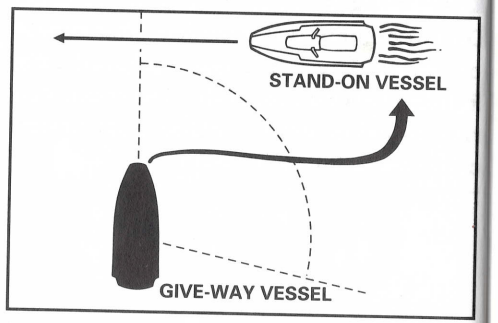
Meeting

If you are meeting another power vessel head on, and are close enough to run the risk of collision, neither of you has the right-of-way! Both of you should alter course to avoid an accident. You should keep the other vessel on your port (left) side. This rule doesn't apply if both of you will clear one another if you continue on your set course and speed.



Crossing

When two power driven vessels are crossing each other's path close enough to run the risk of collision, the vessel which has the other on the starboard (right) side must keep out of the way of the other. If the other vessel is on your right, you must keep out of its way; you are the Give-Way vessel. If the other vessel is on your port (left) side, remember that you should maintain course and direction, provided the other vessel gives you the right-of-way as it should.



Overtaking

If you are passing another vessel, you are the "Give-Way" vessel. This means that the other vessel is expected to maintain its course and speed. You must stay out of its way until you are clear of it. Likewise, if another vessel is passing you, you should maintain your speed and direction so that the other vessel can steer itself around you.

OTHER SPECIAL SITUATIONS

There are three other rules you should be aware of when riding your water vehicle around other vessels.

Narrow Channels and Bends

When navigating in narrow channels, you should keep to the right when it is safe and practical to do so. If the operator of a power-driven vessel is preparing to go around a bend that may obstruct the view of other water vessels, the operator should sound a prolonged blast on the whistle (4 to 6 seconds). If another vessel is around the bend, it too should sound the whistle. Even if no reply is heard, however, the vessel should still proceed around the bend with caution. If you navigate such waters with your water vehicle, you will need to carry a portable air horn, available from local marine supply stores.

Fishing Vessel Right-of-Way

All vessels which are fishing with nets, lines or trawls are considered to be "fishing vessels" under the International Rules. Vessels with trolling lines are not considered fishing vessels. Fishing vessels have the right-of-way regardless of position. Fishing vessels cannot, however, impede the passage of other vessels in narrow channels.

Sailing Vessel Right-of-Way

Sailing vessels should normally be given the right-of-way. The exceptions to this are:

1. When the sailing vessel is overtaking the power-driven vessel, the power-driven vessel has the right-of-way.
2. Sailing vessels should keep clear of any fishing vessel.
3. In a narrow channel, a sailing vessel should not hamper the safe passage of a power-driven vessel which can navigate only in such a channel.

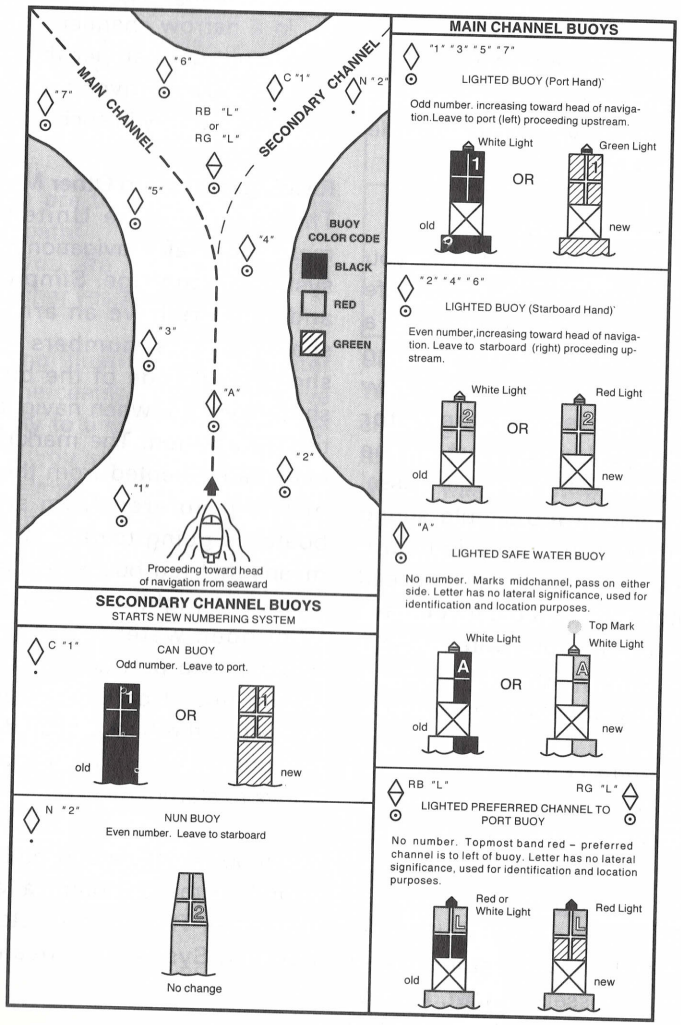
Reading Buoys and Other Markers

The waters of the United states are marked for safe navigation by the lateral system of buoyage. Simply put, buoys and markers have an arrangement of shapes, colors, numbers and lights to show which side of the buoy a boater should pass on when navigating in a particular direction. The markings on these buoys are oriented from the perspective of being entered from seaward (the boater is going towards the port). This means that red buoys are passed on the starboard (right) side when proceeding from open water into port, and black buoys are to port (left) side. When navigating out of port, your position with respect to the buoys should be reversed; red buoys should be to port and black buoys to starboard.

Many bodies of water used by boaters are entirely within the boundaries of a particular state. The Uniform State Waterway Marking System has been devised for these waters.

This system uses buoys and signs with distinctive shapes and colors to show regulatory or advisory information. These markers are white with black letters and orange boarders. They signify speed zones, restricted areas, danger areas, and general information.

Remember, markings may vary by geographic location. Always consult local boating authorities before riding your water vehicle in unfamiliar waters.



EJB50010***

TO GET MORE BOATING SAFETY INFORMATION

Be informed about boating safety. Additional publications and information can be obtained from many organizations, including the following.

United States Coast Guard

Consumer Affairs Staff (G-BC)
Office of Boating, Public, and Consumer Affairs
U.S. Coast Guard Headquaters
Washington, D.C. 20593-0001
Boating Safety Hotline: 1-800-368-5647

Personal Watercraft Industry Association (PWIA)

401 N. Michigan Ave.
Chicago, IL 60611

Personal Watercraft Riders Association (PWRA)

401 N. Michigan Ave.
Chicago, IL 60611

EJB60010***

ENJOY YOUR WATER VEHICLE RESPONSIBLY

- You share the areas you enjoy when riding your Water Vehicle with others and with nature. So your enjoyment includes a responsibility to treat these other people, and the lands, waters, and wildlife with respect and courtesy.
- Whenever and wherever you ride, think of yourself as the guest of those around you. Remember, for example, that the sound of your Water Vehicle may be music to you, but it could be just noise to others. And the exciting splash of your wake can make waves others won't enjoy. Avoid riding close to shoreline homes and waterfowl nesting areas or other wildlife areas, and keep a respectful distance from fishermen, other boats, swimmers, and populated beaches. When travel in areas like these is unavoidable, ride slowly and obey all laws.
- Remember that pollution can be harmful to the environment. Do not refuel or add oil where a spill could cause damage to nature. Remove your Water Vehicle from the water and move it away from the shoreline before refueling. And keep your surroundings pleasant for the people and wildlife that share the waterways: don't litter!
- When you ride responsibly, with respect and courtesy for others, you help ensure that our waterways stay open for the enjoyment of a variety of recreational opportunities.

EJB70011

FUEL REQUIREMENTS

GASOLINE(PETROL)

Recommended gasoline:
Unleaded regular gasoline
Minimum octane rating:
86 (Pump octane number): (R+M)/2
90 (Research octane number)

⚠WARNING

GASOLINE (PETROL) AND ITS VAPORS ARE HIGHLY FLAMMABLE AND EXPLOSIVE!

- **Do not smoke when refueling, and keep away from sparks, flames, or other sources of ignition.**
- **Stop engine before refueling.**
- **Refuel in a well-ventilated area. Do not stand or sit on the water vehicle while refueling in case of fire.**
- **Take care not to spill gasoline (petrol). If gasoline (petrol) spills, wipe it up immediately with dry rags. Always properly dispose of gasoline-soaked rags.**
- **Avoid overfilling the fuel tank. Stop filling when the fuel level just reaches the bottom of the filler tube. Do not fill up the filler tube because fuel expands as it warms up and could overflow.**
- **Tighten the filler cap securely after refueling.**
- **If you should swallow some gasoline (petrol), inhale a lot of gasoline (petrol) vapor, or get gasoline (petrol) in your eyes, get immediate medical attention.**
- **If any gasoline (petrol) spills onto your skin, immediately wash with soap and water. Change clothing if gasoline (petrol) spills on it.**

CAUTION:

Use only fresh gasoline (petrol) that has been stored in clean containers.

Gasohol

There are two types of gasohol: gasohol containing ethanol and that containing methanol. Gasohol containing ethanol can be used if ethanol content does not exceed 10% and the fuel meets minimum octane ratings. Gasohol containing methanol is not recommended by Yamaha because it can cause fuel system damage or engine performance problems.

EJB73010

ENGINE OIL

Recommended oil: YAMALUBE 2 STROKE OUTBOARD OIL
If YAMALUBE 2 STROKE OUTBOARD OIL is not available, another 2-stroke engine oil with a BIA-certified TC-W3 rating may be used.

EJD00010

Chapter 2

FEATURES AND FUNCTIONS

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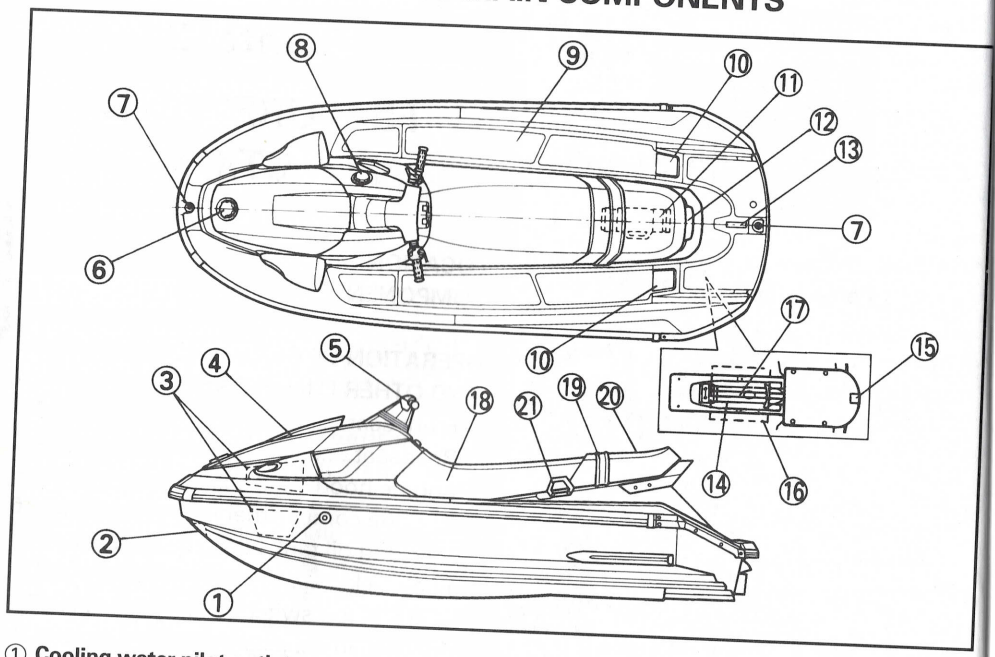
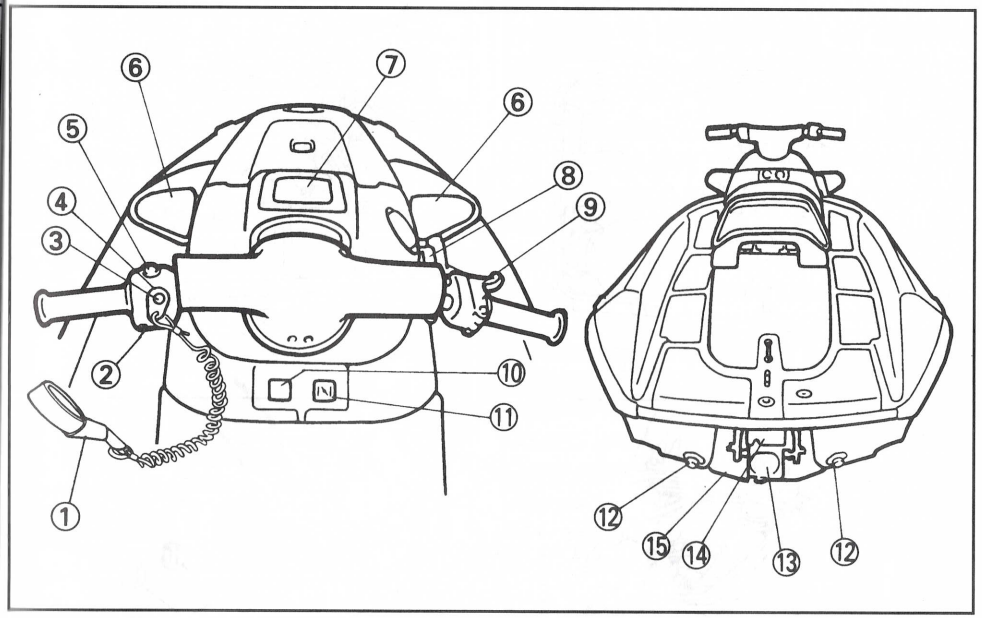
2

EJD10010

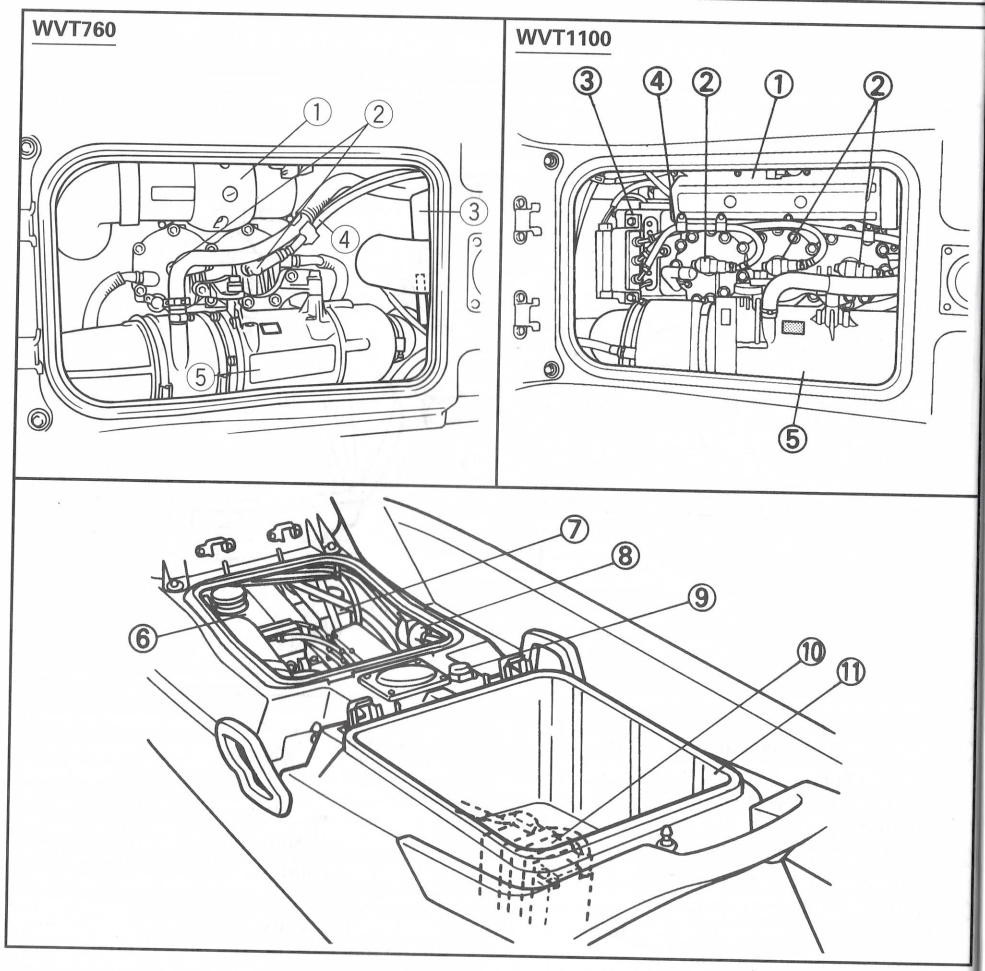
LOCATION OF MAIN COMPONENTS



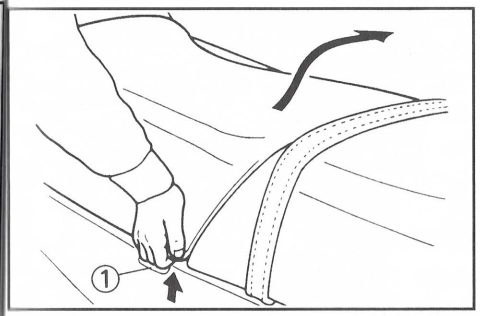
① **Cooling water pilot outlet**
Check point of cooling water flowing
② **Bow eye**
Rope attachement point for transporting, mooring or towing the water vehicle in an emergency
③ **Front storage compartment**
④ **Front hood**
⑤ **Handle bars**
Control steering direction
⑥ **Fuel tank filler cap**
Unscrew counterclockwise to add fuel. Tighten securely clockwise.
⑦ **Rope hole**
Rope attachment point for transporting, mooring
⑧ **Oil tank filler cap**
Unscrew counterclockwise to add oil. Tighten securely clockwise.
⑨ **Footrest floor**
To place feet for balance
⑩ **Foot step**
⑪ **Fire extinguisher container**
⑫ **Seat latch**
Locking and releasing the seat lock
⑬ **Cleat**
Rope attachment point for pulling a water skier
⑭ **Intake grille**
Prevents debris from getting into the jet pump
⑮ **Speed sensor**
⑯ **Jet intake (Water intake)**
Water intake source for jet thrust and engine cooling water
⑰ **Drive shaft**
Transmits power from engine to the jet pump
⑱ **Front seat**
⑲ **Seat strap**
⑳ **Rear seat**
㉑ **Sidegrips**

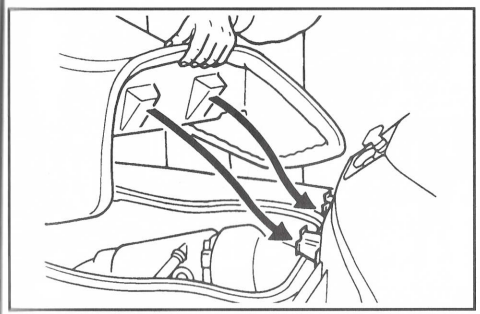


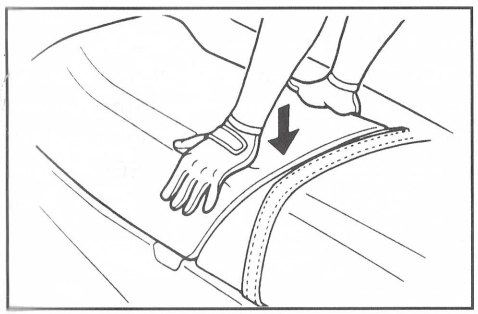
① **Engine stop switch lanyard (Cable)**
By connecting to the stop switch and operator will stop the engine If the operator falls off the vehicle
② **Engine stop switch**
Depress to stop the engine
③ **Engine stop lanyard switch**
Removing the rock plate makes to stop the engine and disable to start the engine.
④ **Lock plate**
Insert the lock plate in the stop switch to allow the engine to be started.
Remove the plate to stop the engine or prevent it from starting.
⑤ **Starter switch**
Depress to start the engine
⑥ **Adjustable mirrors**
⑦ **Multi function meter**
Shows vehicle speed and some other conditions on the vehicle
⑧ **Shift lever (F-R)**
Selects "Forward" or "Reverse" of the water vehicle
⑨ **Throttle lever**
Controls the engine speed when accelerating and decelerate
⑩ **Fuel cock**
Select fuel flow from normal or reserve area of the fuel tank, or shut off fuel flow.
⑪ **Choke knob**
Pull knob when starting a cold engine
⑫ **Drain plugs**
Open to drain water in the bilge when the vehicle is on dry land. Tighten securely before launching craft.
⑬ **Jet nozzle**
Changes the direction of jet thrust according to handlebar position to steer the vehicle
⑭ **Reverse gate**
Controls direction of thrust for reversing
⑮ **Jet pump cover**

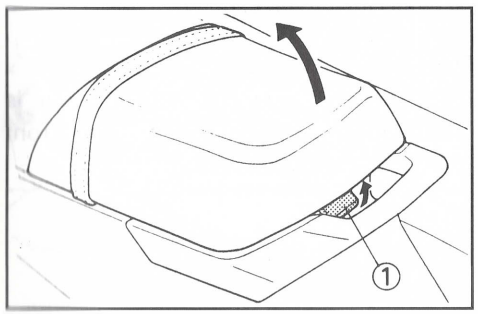


① **Silencer cover**
To help prevent water from getting into the engine and reduce the air intake noise
② **Spark plug**
To ignite to air and fuel mixture in the cylinder
③ **Electrical box**
Contains most electrical components, in this water resistant box
④ **High tension cord**
Deliver electrical current to the spark plug
⑤ **Muffler box**
⑥ **Fuel tank**
⑦ **Oil tank**
⑧ **Fuel filter**
Prevents dust contained in fuel from getting into the engine
⑨ **Flush hose connector**
⑩ **Battery**
⑪ **Seat storage compartment/ice chest**









EJD12010

OPERATION OF CONTROLS AND OTHER FUNCTIONS

EJD13411

FRONT SEAT

There are two seat latch levers at the right and left side of the seat to remove the front seat.

Removal

Pull the front seat latch levers up, then lift the rear of the seat , and pull back.

① Front seat latch levers

Installation

Position the seat on the deck so the front projections on the underside of the seat fits into the stays on the deck. Then push the rear of the seat down until the seat locks latch.

NOTE:

Make sure the seat is firmly secured before riding.

EJD13510

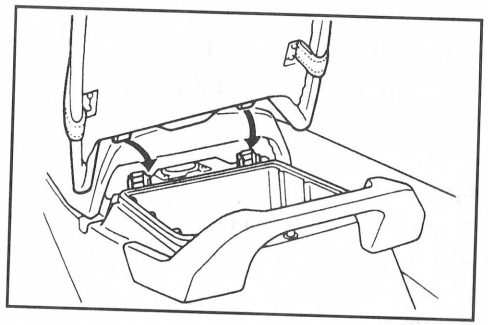
REAR SEAT

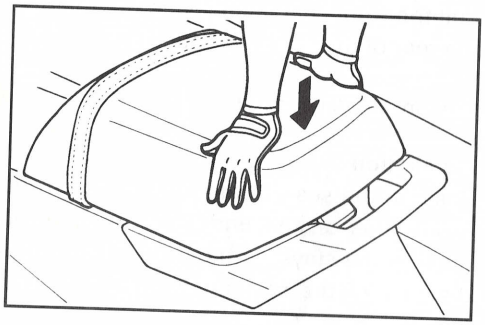
There is a seat latch lever at the rear of the seat to remove the rear seat.

Removal

Pull the rear seat latch lever up, then lift the rear of the seat and pull back.

① Rear seat latch lever



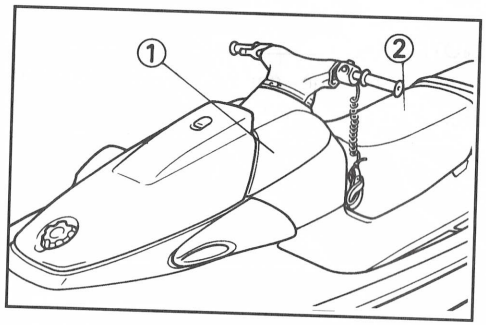


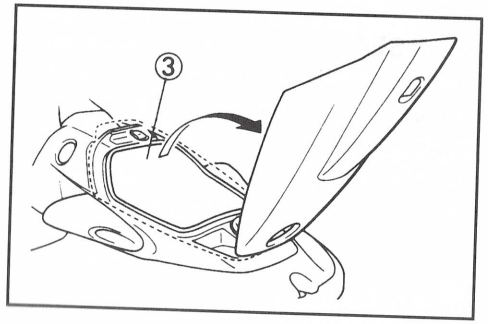
Installation

Position the seat on the deck so the fron projections on the underside of the sea fits into the stays on the deck. Then push the rear of the seat down until the sea lock latches.

NOTE:

Make sure the seat is firmly secured before riding.





EJD15511

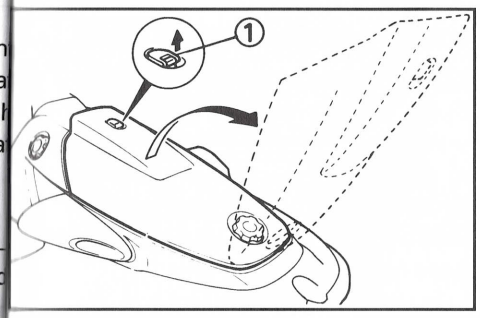
ENGINE HOOD

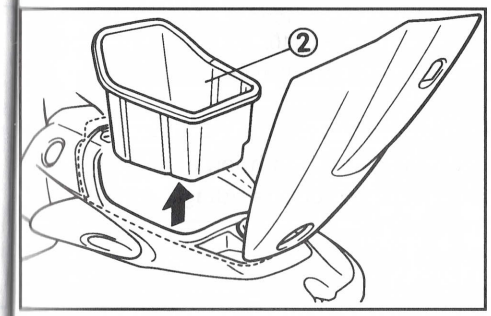
The engine hood is fixed on the deck. To access to the engine compartment, open the front seat and front storage compartment. Refer to "FRONT SEAT" and "STORAGE COMPARTMENT" for their opening and removal.

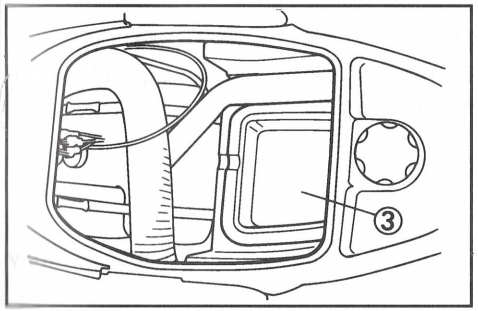
① Engine hood
② Front seat
③ Front storage compartment

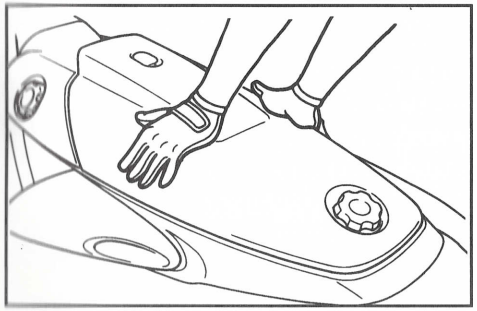
NOTE:

Make sure the engine compartment is firmly secured by the front seat and front storage compartment before riding.









EJD17011

STORAGE COMPARTMENT

Front storage compartments

Two storage compartments are provided at front end of the vehicle.

• Opening

Pull up the hood lock knob to open the front hood. Remove the upper storage compartment to open the lower storage compartment.

① Hatch lock knob
② Upper storage compartment:
Capacity: 26.8 L (7.1 US gal, 5.9 Imp gal)
Load Limit: 5 kg (11.0 lb)
③ Lower storage compartment:

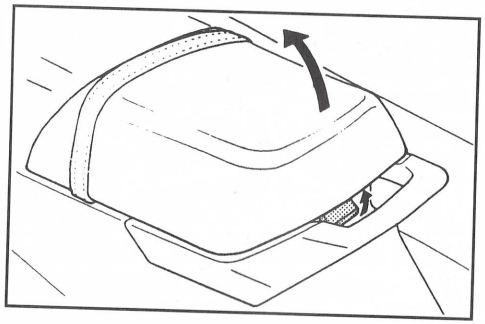
CAUTION:

Store only soft, light weight things, such as rope or rags, in the lower storage compartment.

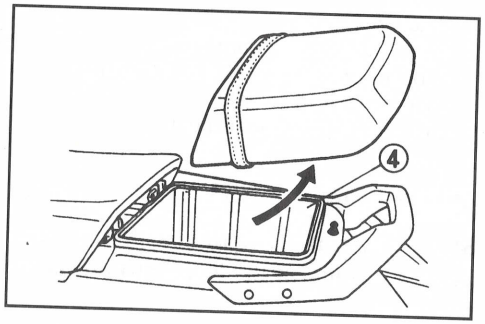
Storing hard or heavy things, such as tools or cans, may break the compartment.

• Closing

Replace the upper storage compartment securely. Close the hood and push the top of the hood down to lock it.

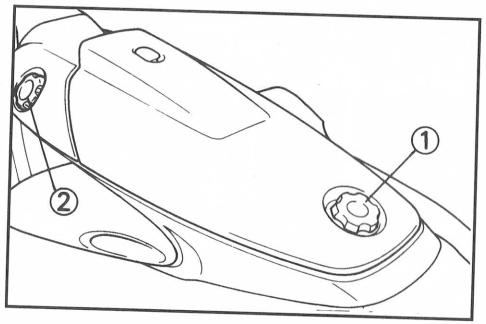


Seat storage compartment
A seat storage compartment is provided under the rear seat.



④ Seat storage compartment:
Capacity: 39.3 L (10.4 US gal, 8.6 Imp gal)
Load limit: 9 kg (19.8 lb)

NOTE:
Make sure the front hood and the seat are firmly secured before riding.



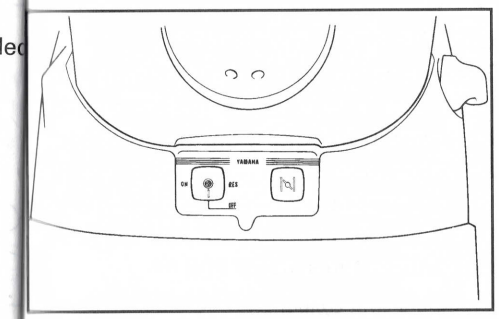
EJD20010***

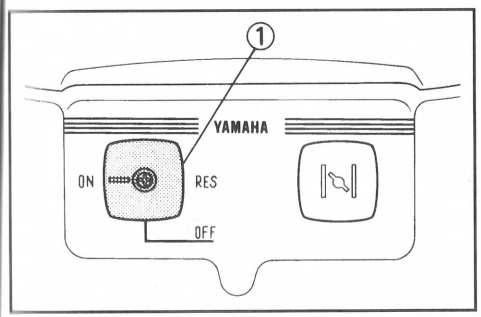
FUEL AND OIL TANK FILLER CAPS

To remove the fuel or oil tank filler cap, turn it counterclockwise.

① Fuel tank filler cap
② Oil tank filler cap

Be sure to tighten the caps securely before riding.





EJE00011

FUEL COCK

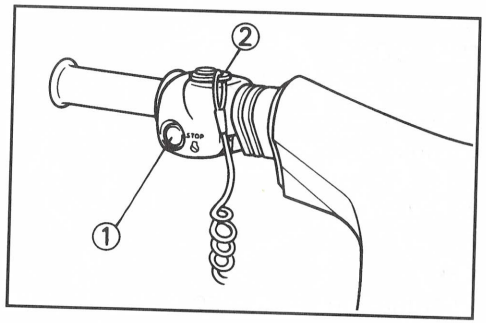
The fuel cock supplies fuel from the tank to the carburetor.
The fuel cock has three positions;

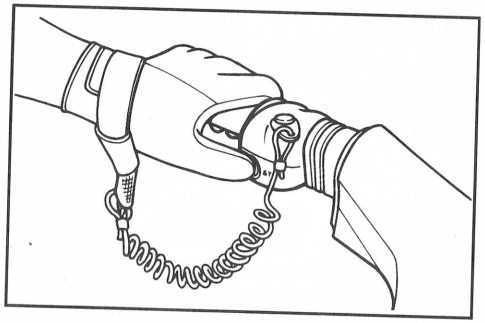
① Fuel cock

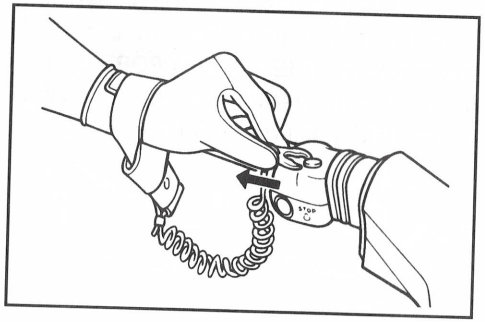
OFF
With the knob in this position, fuel does not flow. Always turn the knob to this position when the engine is not running.

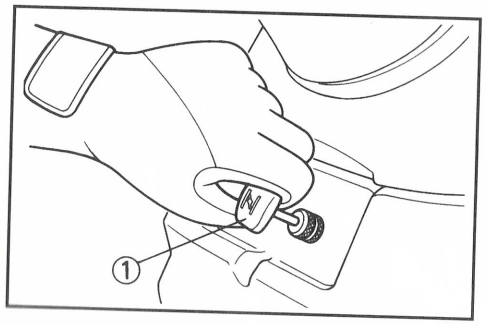
ON
With the knob in this position, fuel flows to the carburetor. Normal running is done with the knob in this position.

RESERVE
This position selects **"RESERVE"**. If you run out of fuel in the **"ON"** position, turn the knob to this position to be able to continue for a short time. Remember to FILL THE TANK AT THE FIRST OPPORTUNITY. After refueling, return the fuel cock knob to the **"ON"** position for further riding.









EJE02011

ENGINE STOP SWITCHES

These switches have the following functions: one is to stop the engine normally by pressing button ① on the switch box; the other is to stop the engine if you fall off, or in case of an emergency, when lock-plate ② attached to the lanyard is pulled from the switch.

① Engine stop switch
② Lock-plate

When the button on the switch is pushed, without removing the lock-plate, the ignition circuit opens and stops the engine immediately.

⚠WARNING

You need engine power to turn. Shutting off the engine can cause you to hit an obstacle you are attempting to avoid. A collision could result severe injury or death.

Should the lock-plate be removed for any reason, the engine stops by itself.

⚠WARNING

- **Always attach the engine stop switch lanyard (cable) to your left wrist BEFORE starting the engine.**
- **To prevent accidental starting of the engine, always remove the lock-plate from the stop switch when the engine is not running.**

EJE04010***

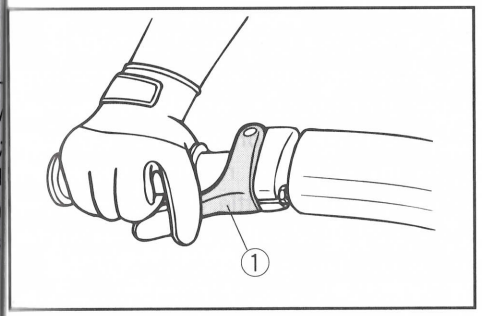
Choke knob

Pulling this knob supplies a rich fuel-air mixture required to start the engine.

NOTE:

Refer to **STARTING THE ENGINE** on page 3-12 to 3-14 for proper operation.

① Choke knob



EJE06010***

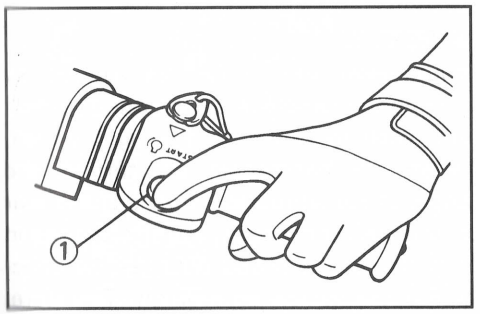
THROTTLE LEVER

Moving the throttle lever toward the handlebar increases engine speed. When the throttle lever is released, it returns to its closed (idle) position through the action of a return spring.

⚠WARNING

Before starting the engine, always check the operation of the throttle lever. It should move smoothly through its full range of operation, and should spring back to the idle position when released.

① Throttle lever



EJE08010***

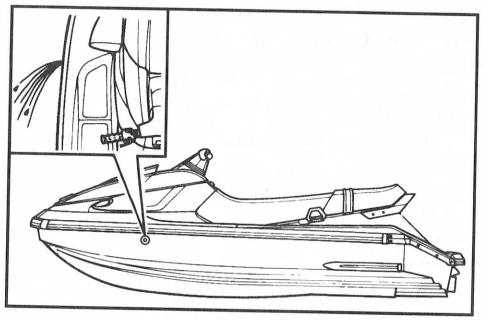
STARTER SWITCH

To start the engine, push the green button on the starter switch.

NOTE:

The engine will not start when the lock plate is removed from the engine stop switch. The starter motor will not turn.

① Starter switch



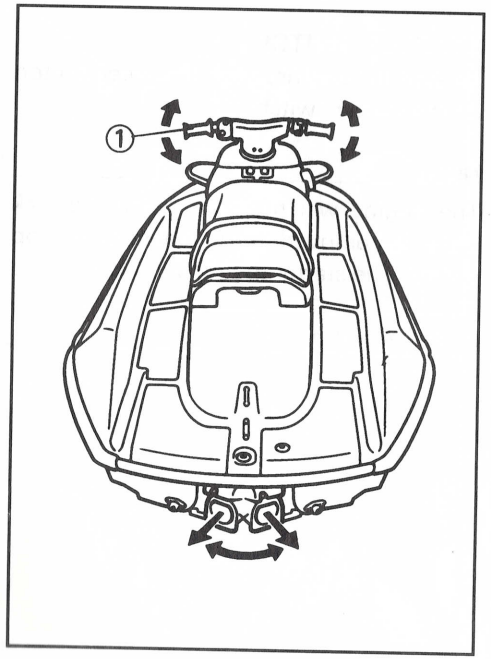
EJE20010***

COOLING-WATER PILOT OUTLET

This engine is equipped with a cooling water pilot outlet at left side of the hull. Check that water comes out of the outlet while the engine is running, particularly while applying throttle. If you do not see any water at the outlet, cooling water may not be circulating in the engine.
In that case, stop the engine and check for the cause (Refer to overheat warning system).

NOTE:

If water cooling passages on the engine are dry it will take about 20 second to reach water at the outlet after starting.

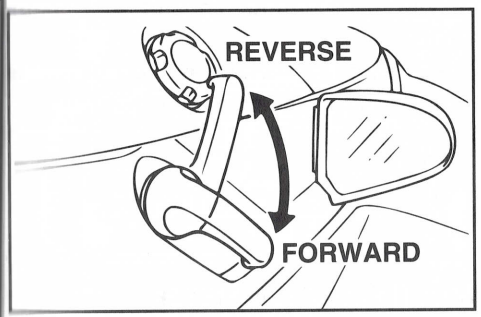


EJE22010***

STEERING

Your water vehicle can be steered by turning the handlebars the same direction you wish to travel, to the right or left. When the handlebars are turned, the angle of the jet (output) nozzle at the rear of the craft is changed, and the change in direction of the nozzle changes the direction of the vehicle accordingly. Therefore, because only the strength of the jet-flow output can determine the speed and direction of a turn, the throttle must always be opened above idle when attempting a turn, except at trolling speed.

① Handlebars



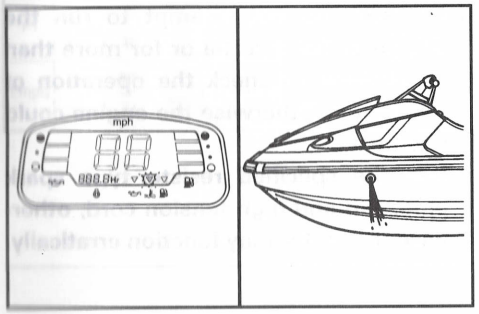
EJE26010***

SHIFT LEVER

This water vehicle is equipped with a shift lever. By placing the shift lever in Forward or Reverse, the direction of the jet thrust can be changed. Use "Reverse" for slow-speed maneuvering only. It is useful when launching the vehicle from a trailer, or when it is necessary to back up out of tight spots where you cannot turn around. To operate the shift lever, close the throttle and release your right hand from the handlebars, and put the shift lever as shown in illustration.

⚠WARNING

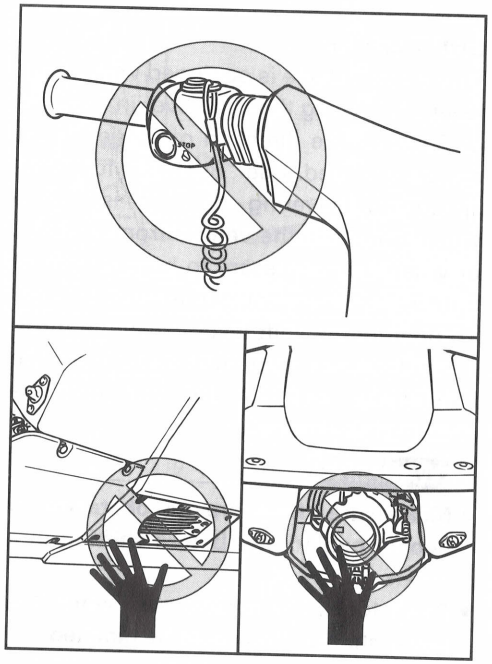
- **Make sure there are no obstacles or people behind you before shifting into reverse.**
- **Don't touch the reverse gate while it is being shifted. You could be pinched.**



EJE30210***

OVERHEAT WARNING SYSTEM

The engine has an overheat warning device. If the engine starts to overheat, the overheat warning symbol/indicator begins to blink, and the engine speed will be limited to about 3,000 r/min.
If this happens, check for water discharge at the cooling water pilot outlet. If there is no discharge of water, beach the vehicle and check for clogging at the jet intake and impeller.



⚠WARNING

Before attempting to remove weeds o debris from the jet intake or impelle areas, shut off engine and remove th engine stop switch lock-plate from th stop switch.

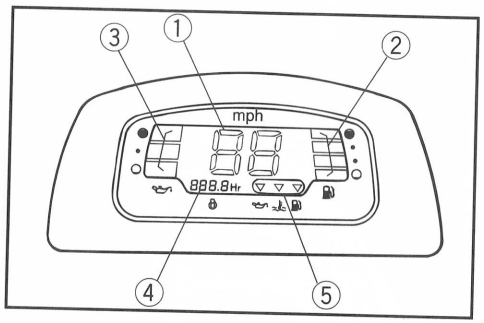
CAUTION:

If you cannot locate and correct the cause of the overheating, consult a Yamaha dealer.
Continuing to operate at higher speeds could result in severe engine damage.

EJE36313

MULTI FUNCTION METER

This meter contains the speedometer, fuel level meter, oil level meter, hour meter displays and warning indicators for fuel, oil and overheating.



① Speedometer
② Fuel level meter
③ Engine oil level meter
④ Hour meter
⑤ Warning (fuel, oil and overheat) indicator

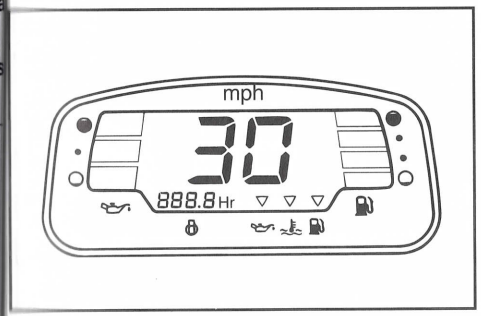
CAUTION:

- **On land, do not attempt to run the engine at full throttle or for more than 15 seconds to check the operation of this meter. Otherwise the engine could overheat.**
- **Use the specified resistor-type spark plug, cap and high tension cord, otherwise the meter may function erratically.**

EJE38110

Operation of multi function meter

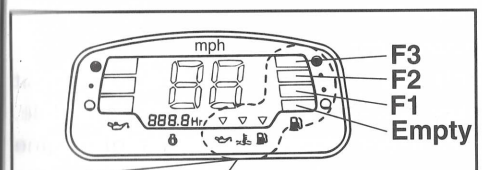
After starting the engine, all displays light up. After 2 seconds, the meter will operate normally. After stopping the engine, in normal operation, the fuel and oil level meter will operate for another 30 seconds. All other displays disappear.



EJE48010

Speedometer

The meter shows the vehicle speed in miles per hour (mph).

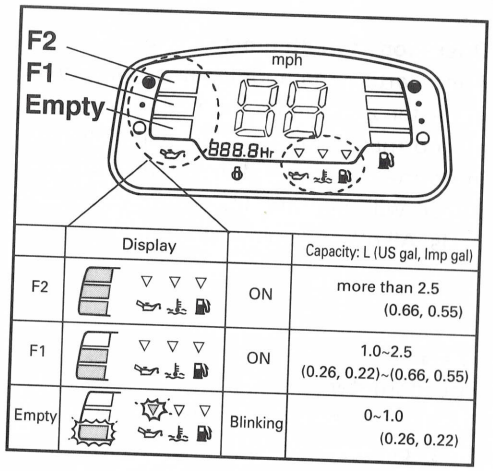


	Display		Capacity: L (US gal, Imp gal)
F3	▽ ▽ ▽	ON	more than 46 (12.1, 10.1)
F2	▽ ▽ ▽	ON	30~46 (7.9, 6.6)~(12.1, 10.1)
F1	▽ ▽ ▽	ON	12~30 (3.2, 2.6)~(7.9, 6.6)
Empty	▽ ▽	Blinking	0~12 (3.2, 2.6)

EJE50010

Fuel level meter

The fuel level meter is provided for convenient fuel level checking while riding. The fuel level meter has four segments which show the amount of fuel remaining in the fuel tank.

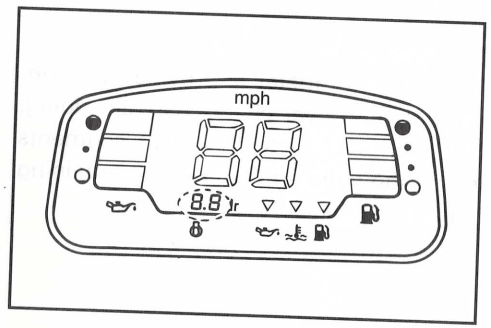


	Display		Capacity: L (US gal, Imp gal)
F2		ON	more than 2.5 (0.66, 0.55)
F1		ON	1.0~2.5 (0.26, 0.22)~(0.66, 0.55)
Empty		Blinking	0~1.0 (0.26, 0.22)

EJE51010

Engine oil level meter

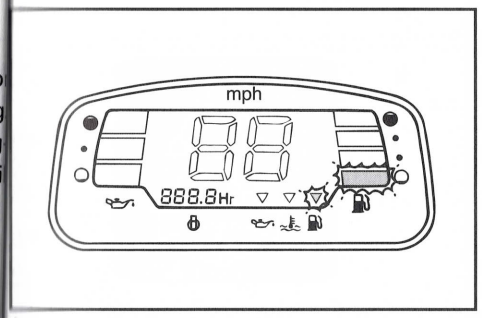
The engine oil level meter is provided fo convenient oil level checking while riding The engine oil level meter has three seg ments which show the amount of oi remaining in the oil tank.



EJE52010

Hour meter

This hour meter is provided to make it easy to follow the maintenance schedule. The meter shows the hours of engine operation that have elapsed since the vehicle was new.

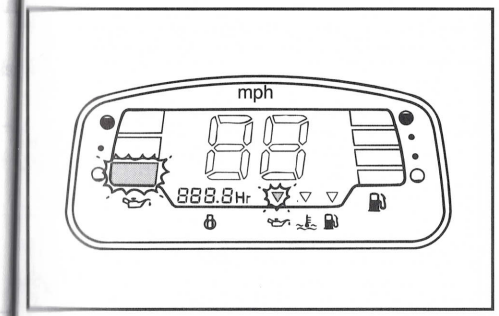


EJE54210

Warning indicators

- **Fuel level**

If the fuel remaining in the tank drops to about 12 L (31.7 US gal, 2.64 Imp gal), the fuel level segment and the fuel warning indicator begin to blink. Turn the fuel cock knob to the "RES" position, then refill with gasoline (petrol) as soon as possible.

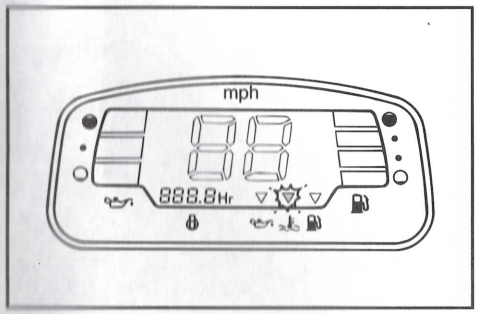


- **Oil level**

If the oil remaining in the tank drops to about 1.0 L (0.26 US gal, 0.22 Imp gal) or the oil filter is clogged, the oil level segment and the oil warning indicator begin to blink.

CAUTION:

- **If the oil level warning indicator begins to blink, refill with engine oil as soon as possible.**
- **If the warning indicator blinks with adequate oil in the tank, check for a clogged oil filter.**



- **Overheat**

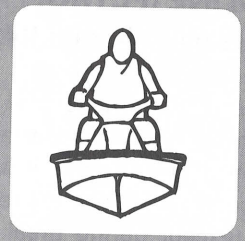
If the engine starts to overheat, the overheat warning indicator begins to blink. Refer to "Overheat warning system" on page 2-12.

NOTE:

In warning indicators operation, the fuel, oil level or overheat warning indicators will operate for 30 seconds after stopping the engine.

– MEMO –

E



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EMG00010

Chapter 3

OPERATION AND RIDING

GASOLINE(PETROL)AND ENGINE OIL FILLING 3-1
- Filling the gasoline (petrol) tank 3-1
- Filling the oil tank 3-2

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- Check list 3-3
- Check point 3-4

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- Starting the engine 3-12
- Stopping the engine 3-14

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- Leaning to ride your water vehicle 3-15
- Riding with passengers 3-16
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POST-OPERATION CHECKS 3-26

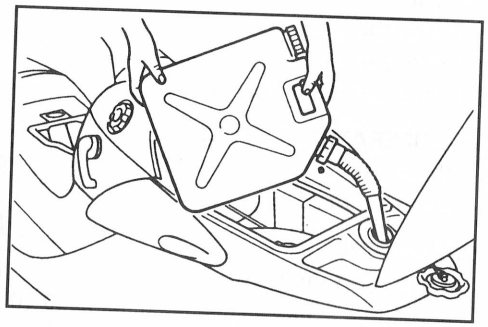
TRANSPORTATION 3-28

3

EJG09010

GASOLINE (PETROL) AND ENGINE OIL FILLING

This engine uses Yamaha's oil injectio system, which provides superior lubric tion by ensuring the proper oil ratio for a operating conditions. No fuel premixing necessary (except during break-in / ru ning-in). Simply pour gasoline (petro into the fuel tank and oil into the oil tank.



EJG10115

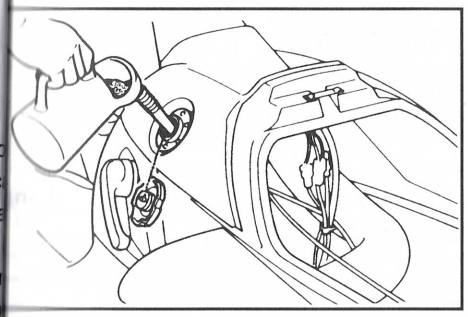
FILLING THE GASOLINE (PETROL) TANK

1) Open the front storage compartmer hood and remove the compartmen and open the front seat, so you ca watch the fuel level.
2) Open the fuel tank filler cap, an slowly add fuel to the fuel tank. B careful not to spill fuel or overfill th tank.
3) Stop filling when the fuel just reache the bottom of the filler tube on th top of the fuel tank. Do not fill into th filler tube, because gasoline (petrol could spill out.

CAUTION:

Be careful when refueling. Avoid gettin water or other contaminants in the fue tank. Contaminated fuel can cause poo running or engine damage.

Fuel tank capacity:
50 litres (13.2 US gal, 11.0 Imp gal)



EJG12210

FILLING THE OIL TANK

1) Open the front storage compartment hood and remove the compartment, and open the front seat, so you can watch the oil level.
2) Open the oil tank filler cap, and very slowly add engine oil to the oil tank.
3) Stop pouring when the oil just reaches the bottom of the filler tube.

CAUTION:

Do not allow the oil tank to empty completely. The oil injection pump must be bled to ensure proper oil flow after the tank empties. Otherwise, engine damage may occur. If bleeding of the oil pump is necessary, take the water vehicle to your nearest Yamaha dealer.

Oil tank capacity:
3.8 lit (1.00 US gal, 0.84 Imp gal)

⚠WARNING

Oil in the bilge is a serious fire hazard. Wipe up any spilled oil immediately.

EJG15010

PRE-OPERATION CHECKS

CHECK LIST

Before operating this water vehicle, perform the following checks:

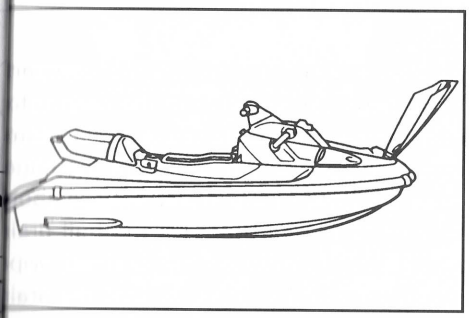
⚠WARNING

If any item in the Pre-Operation check is not working properly, have it inspected and repaired before operating the water vehicle. Otherwise an accident could occur.

ITEM	ROUTINE	PAGE
ENGINE COMPARTMENT	Open seat and storage compartment, and ventilate the engine compartment	3-4
BILGE	Check, and remove all water and fuel residue before launching	3-5
THROTTLE	Check for proper throttle operation	3-7
STEERING	Check for proper steering operation	3-7
SHIFT	Check for proper shift operation	3-7
FUEL AND OIL	Check fuel and oil level; add as necessary. Check for leaks.	3-4
BATTERY	Check fluid level and charge condition	3-5
ENGINE HOOD	Check each latched at seats and front hood are secured	2-5
SEAT	Check that the seat is securely fastened to the deck	2-4
HULL	Check the hull for damage or cracks	—
JET (WATER) INTAKE	Check that no debris is in the intake	3-8
FIRE EXTINGUISHER	Check readiness of the extinguisher	3-6
SWITCHES	Check operation of the starter and stop switches when the vehicle is in the water	3-9
COOLING WATER PILOT OUTLET	Check that water comes out while the engine is running	3-9

NOTE:

Pre-operation checks should be made each time the vehicle is used. This procedure can be accomplished thoroughly in a short time. The added safety and reliability the checks assure is worth the time involved.



EJG17210***

CHECK POINT

Engine compartment

Open the front hood and remove the storage compartment, and also remove the front seat to ventilate the engine compartment. Once the engine compartrment is open at both end, open for a few minutes to allow any fuel vapors to escape.

⚠WARNING

Failure to ventilate the engine compartment to release fuel vapors could result in fire or explosion. Do not start the engine if you can smell fuel vapors in the engine compartment.

EJG20010***

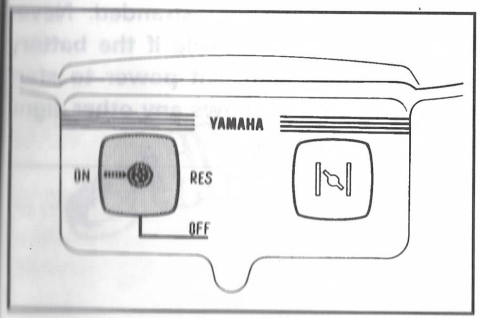
Fuel system

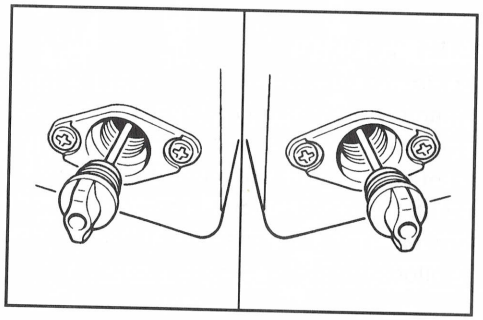
Refer to page 4-7 "FUEL SYSTEM INSPECTION" for correct procedure.

EJG22111

Fuel and engine oil

1) Remove the fuel tank filler cap to release any pressure which might have built up in the tank because of fuel expansion.
2) Open the front hood and remove the storage compartment, and also remove the front seat.
   Check the fuel and oil level (oil injection model) in the tank and add as necessary. (Refer to page 3-1 "GASOLINE (PETROL) AND ENGINE OIL FILLING")
3) Turn the fuel cock knob to the "ON" position.





EJG28010***

Bildge

Excessive water in the engine compar ment bilge can splash into the carburet and engine. This could cause engine dar age. If there is any moisture in the bilg raise the front of the Water Vehicle abo 30 cm (12 in.) and remove the hull dra plugs. After the water has drained, wip the bilge with dry rags. Reinstall the dra plugs.

CAUTION:

Tighten two hull drain plugs securel before launching the Water Vehicl Clean any foreign material, such as dirt sand, from the threads before installin the drain plugs.

⚠WARNING

Always properly dispose of gasoline soaked rags. They can spontaneousl ignite.

EJG30010***

Battery

Check the battery condition and the bat tery electrolyte level.

⚠WARNING

The battery must always be fully charge and in good condition. Loss of batter power may leave you stranded. Neve operate the water vehicle if the battery does not have sufficient power to star the engine or if it shows any other sign of decreased power.

EJG32010***

Fire extinguisher

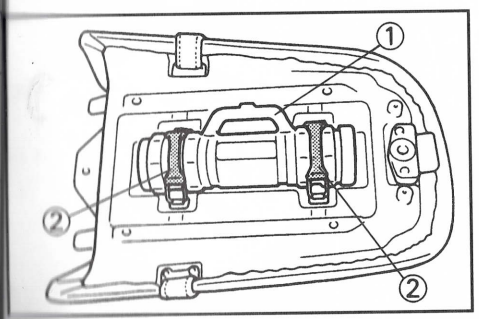
Make sure the fire extinguisher is aboard and full. See the instructions supplied by the fire extinguisher manufacturer to determine proper indication of condition. Always keep the extinguisher in the fire extinguisher container back the seat. Turn the container lid counterclockwise to open it.

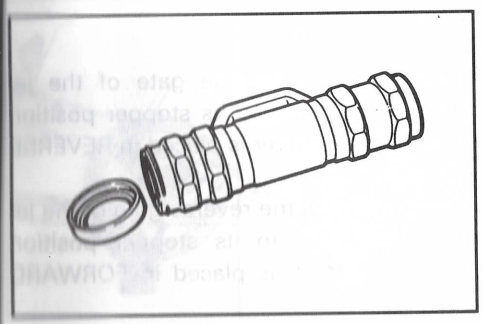
⚠WARNING

Always carry a fire extinguisher on board.

This water vehicle is included in the Class A inboard boat classification of the U.S. Coast Guard. A water craft of this type MUST carry a fire extinguisher of a B-1 classification, with a capacity of two pounds or more when navigating in waters under Coast Guard jurisdiction. In addition, most state and local boating laws also require that the craft carry a USCG-approved fire extinguisher wherever it is operated.

A fire extinguisher is not standard equipment with this vehicle. If you do not have one, contact your local Yamaha Water Vehicle dealer or a fire extinguisher dealer to obtain one meeting the proper specifications.



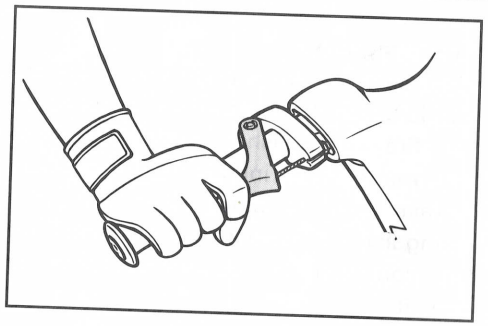


① Fire extinguisher container
② Bands

Install the fire extinguisher container on the seat and secure it with the bands.

NOTE:

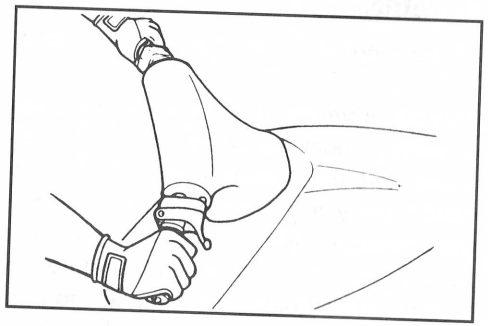
The container cap should be on securely before mounting the seat.



EJG34010***

Throttle

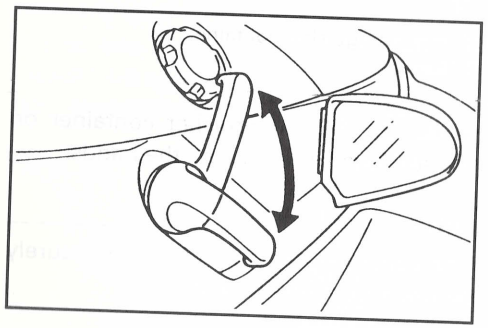
Operate the throttle lever several times
make sure there is no hesitation in
travel. It should be smooth over the co
plete range, and spring back to the i
position on its own when released.



EJG36010***

Steering

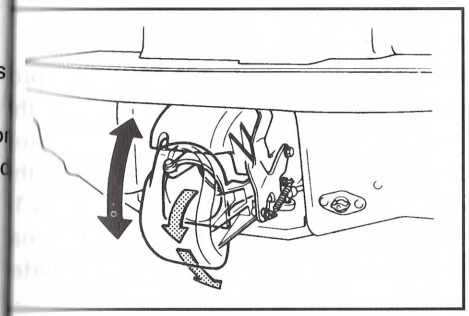
Make sure the handlebars are not loos
Turn them full-right and full-left to ma
sure operation is smooth and unrestricte
throughout the whole range. Make su
the jet nozzle also changes directions
the handlebars are turned, and that the
is no free play between the handleba
and the jet nozzle.



EJG38010***

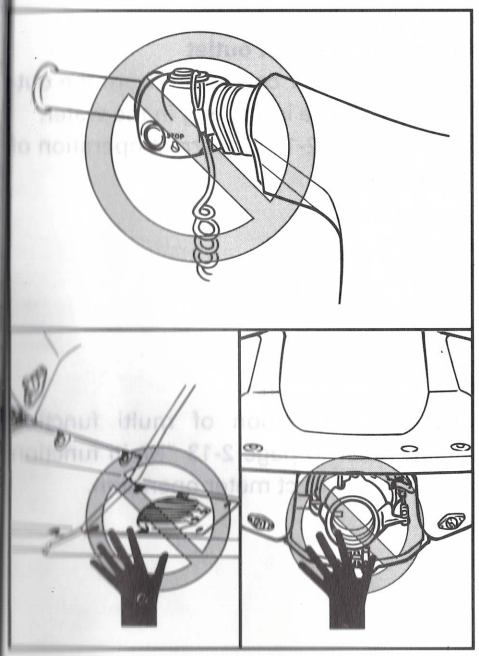
Shift

Make sure the reverse gate of the je
pump goes down to its stopper positio
when the shift lever is placed in REVERS
position.
Also make sure the reverse gate of the je
pump goes up to its stopper positio
when shift lever is placed in FORWARD
position.



⚠WARNING

- **Shifting to REVERSE will not slow down or stop the vehicle from higher speed. Reverse is for slow speed maneuvering only.**
- **There is no "neutral" position. The vehicle will produce some forward or reverse thrust whenever the engine is running.**
- **Shift only with the engine idling or off. Do not shift when applying throttle.**
- **Make sure there are no obstacles or people behind you before shifting into reverse.**



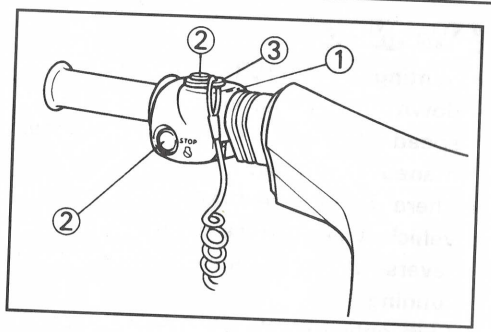
EJG40010***

Jet intake

Carefully check the jet intake for weeds, debris, or anything else that might restrict the intake of water. If the intake is clogged, cavitation could occur, reducing jet thrust, and possibly damaging jet pump parts. In some cases, the engine may overheat because of lack of cooling water, and damage could result. Engine cooling water is fed to the engine by the jet pump (see pages 5-3).

⚠WARNING

Before attempting to remove weeds or debris from the jet intake or impeller areas, shut off the engine and remove the engine stop switch lock-plate from the stop switch.

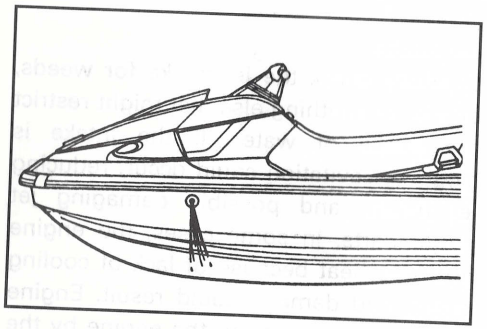


EJG42010***

Switches

First, place the vehicle in the water to pr
vide adequate engine cooling. Start t
engine, and then remove the engine st
switch lock-plate, and verify that t
engine stops. Refer to pages 3-12 to 3-
"STARTING THE ENGINE", for inform
tion on proper operation of the start
switch.

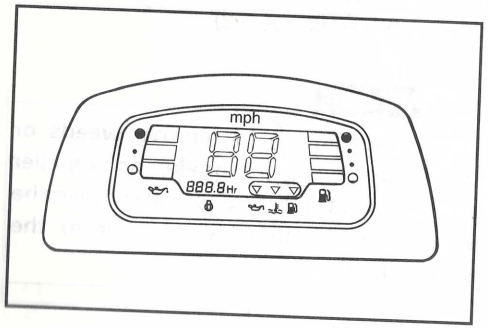
① Starter switch
② Engine stop switch
③ Lock-plate



EJG44010***

Cooling-water pilot outlet

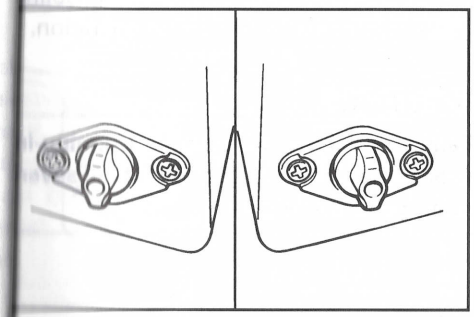
Check that water comes out from the ou
let while engine is running in the water.
Refer to page 2-11 for correct operation
the device.



EJG46011

Multi function meter

Check the operation of multi functio
meter. Refer to page 2-13 "Multi functio
meter" for correct meter operation.



EJG60011

OPERATION

⚠WARNING

Before operating your water vehicle, become familiar with all controls. Consult your Yamaha dealer about any control or function you do not fully understand. Failure to understand how controls work could cause an accident or prevent you from avoiding an accident.

CAUTION:

There are two hull drain plugs near the jet unit on the stern side. Be sure they are securely tightened before launching the Water Vehicle.

EJG62215

BREAK-IN (RUNNING-IN) PROCEDURE

The engine and other components require a break-in (running-in) period to allow surfaces of moving parts to wear in evenly. This ensures proper performance and promotes longer component life.

CAUTION:

- **During first tankful of operation, use 50 : 1 premix fuel (in addition to oil in oil tank).**
- **After above period, use straight gasoline (petrol) for normal operation.**

1) Launch the vehicle and start the engine.

⚠WARNING

Never ride in water that is less than 60 cm (2 feet) deep. You increase your chance of hitting an underwater obstacle. You could be injured. Pebbles or sand can also be sucked into the jet (water) intake, damaging the impeller.

2) Run the engine at the lowest possi
speed for the first five minutes.

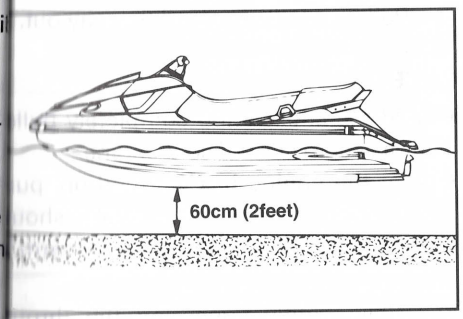
3) Gradually open the throttle to 3/4
less.

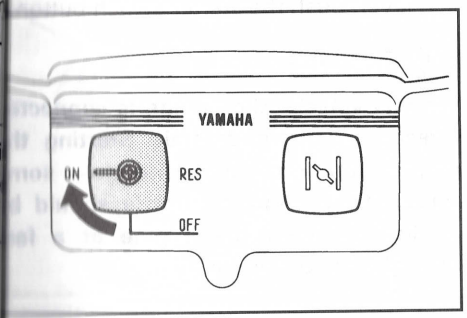
4) Continue operation at 3/4 - throttle
less until the first tankful of fuel h
been used up.

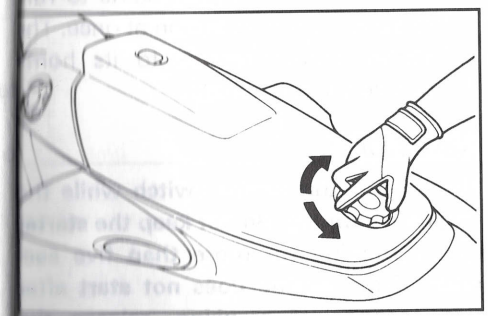
5) Fill the tank with a straight gasoli
and proceed with normal operation.

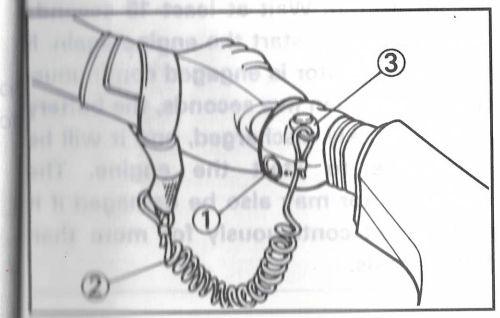
CAUTION:

**Failure to follow the break-in (running-i
procedure properly can result in seve
damage to the engine.**









EJG64010***

STARTING THE ENGINE

1) Always make sure the vehicle is launched and used in waters that are free from weeds and debris, and in depths of at least 60 cm (2 feet).

⚠WARNING

Never ride in water that is less than 60 cm (2 feet) deep. You increase your chance of hitting an underwater obstacle. You could be injured. Pebbles or sand can also be sucked into the jet (water) intake, damaging the impeller.

2) Turn the fuel cock knob to the "ON" position.

NOTE:

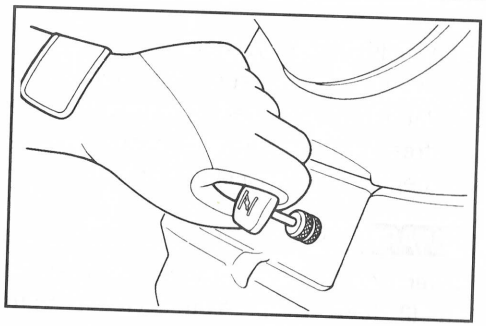
Before the first start-up, remove the fuel tank filler cap to release any built-up pressure in the tank because of fuel expansion.

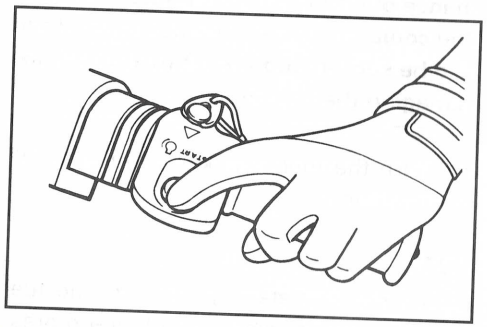
3) Install the lock-plate on the top of the engine start/stop switch box and pushing the small tab over the barrel beneath the knob, attach the lanyard to your left wrist.
Be sure the lanyard is not wrapped around the handlebar or tangled in the controls.

① Engine stop switch
② Engine stop switch lanyard
③ Lock-plate attached to the lanyard

NOTE:

It is not possible to start the engine with the lock-plate removed from the engine stop switch.





4) Pull the choke knob all the way out.

NOTE:

- Hold the choke knob completely pul for a secure start of cold engine.
- After the engine has warmed up, pu the choke knob in. The choke shou not be used when the engine is warm

5) While lightly squeezing the throt lever, push the starter switch button

⚠WARNING

On this vehicle, the engine is connect directly to the drive unit. Starting t engine immediately generates son thrust. Only enough throttle should b applied to keep the engine at a fa enough idle to stay running.

6) As soon as the engine starts to ru release the starter button at once. Th starter button returns to its hon position automatically.

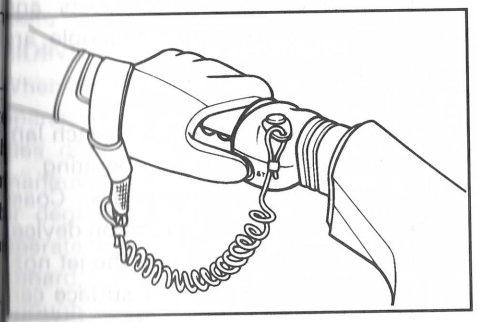
CAUTION:

Never push the starter switch while th engine is running. Do not keep the starte motor running for more than five se onds. If the engine does not start afte five seconds of cranking, release th starter button. Wait at least 15 second before trying to start the engine again. the starter motor is engaged continuous ly for more than five seconds, the batter will be quickly discharged, and it will b impossible to start the engine. Th starter motor may also be damaged if i is engaged continuously for more tha five seconds.

7) After the engine is warm, push the choke knob in fully, to its original position.

NOTE:

If the choke knob is left pulled out, the engine will stall.



EJG66011

STOPPING THE ENGINE

To stop the engine, release the throttle lever, then push and hold the stop switch with your left hand. When the button is pushed the ignition stops, which stops the engine.

⚠WARNING

You need engine power to turn. Shutting off the engine can cause you to hit an obstacle you are attempting to avoid. A collision could result severe injury or death.

NOTE:

If leaving the water vehicle, remove the engine stop switch lanyard to reduce the chance of unauthorized use or theft.

EJJ00215

RIDING YOUR WATER VEHICLE

GETTING TO KNOW YOUR WATER VEHICLE

Riding your water vehicle requires skills acquired through practice over a period of time. Take the time to learn the basic techniques well before attempting more difficult maneuvers.

Riding your new water vehicle can be a very enjoyable activity, providing you with hours of pleasure. But it is essential to familiarize yourself with the operation of the water vehicle to achieve the skill necessary to enjoy riding safely. Before you begin to ride be sure you have read this Owner's Manual completely and understand the operation of the controls. Pay particular attention to the safety information on pages 1-6 to 1-11. Read all caution and warning labels on your water vehicle.
Also read the Riding Practice Tips booklet supplied with your vehicle.

Remember: Your water vehicle is designed for one operator and two passengers only. Never have more than three people on the vehicle at any time.

EJJ02210

LEARNING TO RIDE YOUR WATER VEHICLE

Before riding, always perform the Pre-Operation Checks listed on page 3-3. The short time spent checking the machine's condition will reward you with added safety and a more reliable water vehicle.

Check state and local laws before operating your water vehicle. Read the Boat Handling Instructions issued by the U.S. Coast Guard for basic safe boating information.

Select a wide area to learn in, where visibility is good and other boat traffic is light. Have someone in a boat accompany you if operating far from shore. Keep the proper distance from other boats and vehicles. Do not ride where people are swimming.

Always attach the engine stop switch lanyard to your left wrist before operating.
You must always wear a U.S. Coast Guard approved personal flotation device. Strong streams of water from the jet nozzle, or impact with the water surface can be dangerous. You must wear a wetsuit. Normal swimming attire may not adequately protect you. A wetsuit will help protect against internal injuries to orifices (rectum and vagina) from strong jet streams, and from impact with the water surface. Wetsuits also help protect against hypothermia (low body temperature) and abrasions.
You should wear water shoes to help protect feet from objects hidden under water. Wearing gloves can also help protect hands from abrasions.
Wind, water, and glare from the sun may get in your eyes while you operate your water vehicle, reducing your ability to see. You may want to consider wearing eye protection such as sunglasses or goggles while riding. Some may find, however, that eye protection obstructs or distorts their vision, and distracts from operation.

only you know the circumstances in which you operate your water vehicle, so only you can decide if the benefits of eye protection outweigh the potential hazards.

You should grip the handlebars firmly and keep both feet on the footrest floor. Do not attempt to ride with passengers until your riding skills are fully developed.

EJJ06110

RIDING WITH PASSENGERS

When two or three persons (including the operator) are on board, the vehicle handles differently, and is not as easy to maneuver, so operating it requires a higher degree of skill. Before attempting to operate the water vehicle with passengers aboard, the operator must practice enough riding alone to be able to acquire the necessary skills.

The passengers must always wear U.S. Coast Guard approved personal flotation devices.
Strong streams of water from the jet nozzle, or impact with the water surface can be dangerous. Both operator and passengers must wear wetsuits. Normal swimming attire may not adequately protect you. A wetsuit will help protect against internal injuries to orifices (rectum and vagina) from strong jet streams, and from impact with the water surface. Wetsuits also help protect against hypothermia (low body temperature) and abrasions.
Both operator and passengers should wear water shoes to help protect feet from objects hidden under water. Wearing gloves can also help protect hands from abrasions.
Wind, water, and glare from the sun may get in your eyes while you operate your water vehicle, reducing your ability to see. You may want to consider wearing eye protection such as sunglasses or goggles while riding. Some may find, however, that eye protection obstructs or distorts their vision, and distracts from operation. Only you know the circumstances in which you operate your water vehicle, so only you can decide if the benefits of eye protection outweigh the potential hazards.

This water vehicle is designed to carry one operator and one or two passengers, as long as the total weight does not exceed 240 kg (530 lb).

The operator should grip the handlebars firmly and keep both feet on the footrest floor. Do not give a ride to a child whose feet cannot reach the footrest floor. The passengers should hold on firmly, either to the person in front of them or to the handgrips provided, and keep both feet on the footrest floor.

⚠WARNING

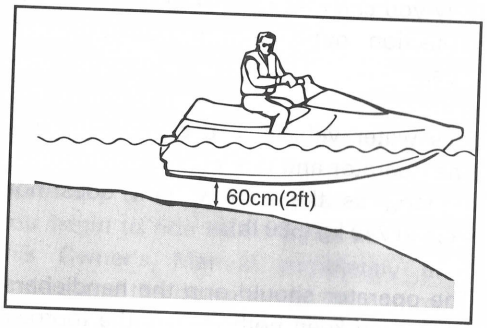
When passengers are on board, make sure they are holding on firmly before you start to accelerate.

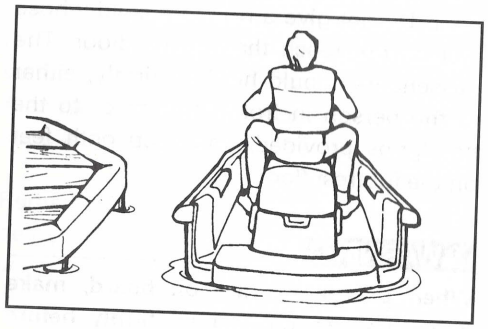
EJJ03010***

STARTING

⚠WARNING

- **Before starting off, make sure there a no boats, obstructions, or swimme around you.**
- **Practice getting on board in shallo water before riding in deep water.**





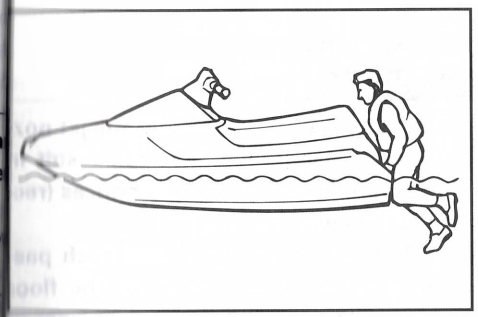
EJJ05111

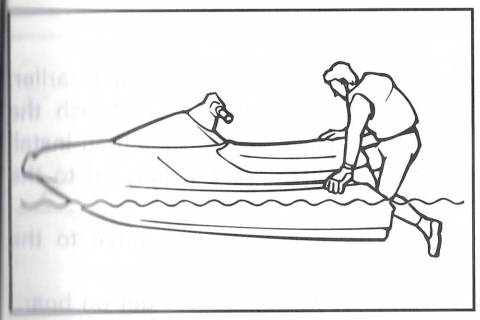
Starting in shallow water

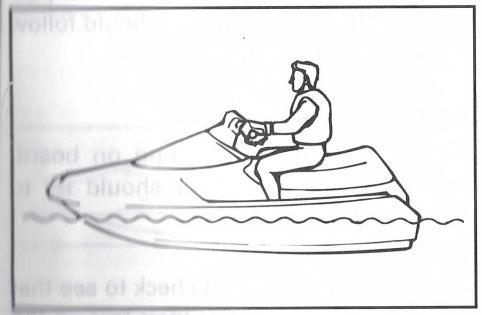
1) Do not start your water vehicle in les than 60 cm (2 feet) of water. Put it i an area that is deep enough, the board the vehicle from the side or th rear.
2) Attach the lanyard to your left wris then install the lock plate on the lar yard to the engine stop switch.
3) Grip the handlebars with both hands place both feet on the footrest floo start the engine, and start off.

Starting from a landing jetty

1) Board the vehicle from the side.
2) Attach the lanyard to your left wris then install the lock plate on the lar yard to the engine stop switch.
3) Push the vehicle away from the jetty grip the handlebars with both hands place both feet on the footrest floor start the engine, and start off.





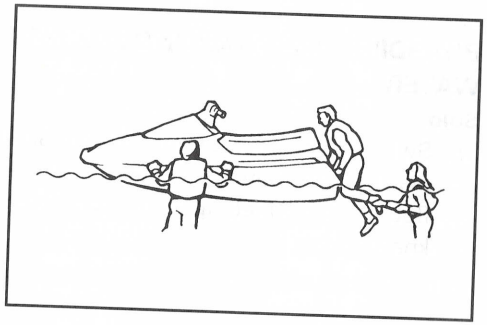


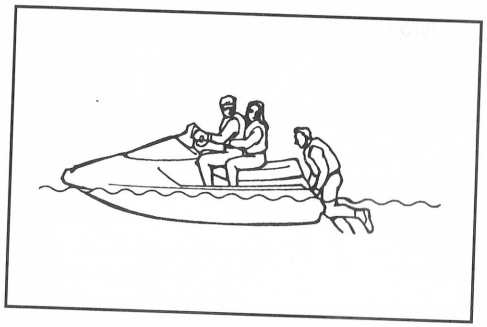
EJJ10111

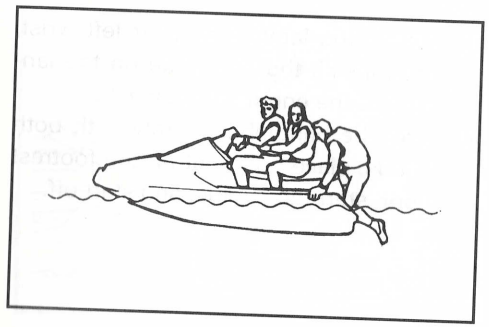
BOARDING AND STARTING IN DEEP WATER

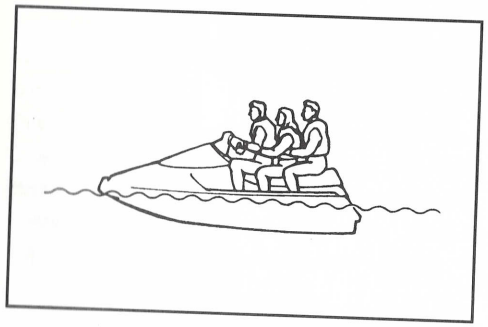
Solo

1) Swim to the rear of the vehicle and place both hands on the footrest floor. Pull yourself up on the floor and kneel down.
2) Move to the seat and sit astride.
3) Attach the lanyard to your left wrist, then install the lock plate on the lanyard to the engine stop switch.
4) Grip the handlebars firmly with both hands, place both feet on the footrest floor, start the engine, and start off.









EJJ11211

With passengers

⚠WARNING

Strong streams of water from the jet nozzle can be dangerous, and can result in injury when directed at body orifices (rectum and vagina).
Do not open the throttle until each passenger is seated with feet on the floor and is holding on to the person in front of him or her.

1) Climb up on board as noted earlier and sit astride the seat. Attach the lanyard to your left wrist, then install the lock plate on the lanyard to the engine stop switch.
2) The passenger should move to the rear of the vehicle.
3) Next, let the passenger get on board and sit on the seat. If a second passenger is getting on, he should follow the same procedure.

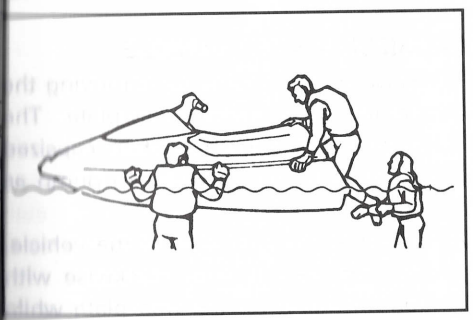
NOTE:

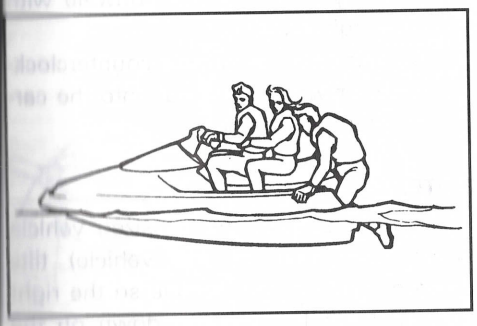
When a passenger is getting on board, both he and the operator should try to balance the vehicle.

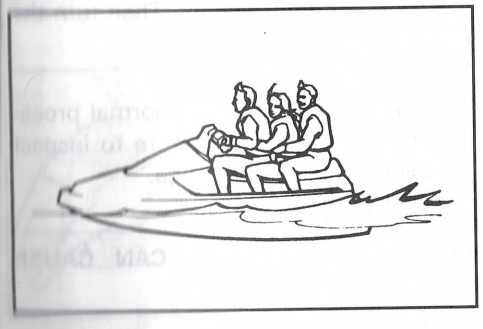
4) The operator should check to see that the passengers have their feet on the footrest floor and that they are holding on securely either to the person in front of them or to the handgrips provided. Then start the engine and accelerate to planing speed.

⚠WARNING

Before starting off, make sure there are no boats, obstructions, or swimmers around you.







EJJ12111

LOAD LIMIT

The heavier the total weight of the operator and passenger, the more difficult it will be to balance the water vehicle. It is not advisable to ride the vehicle when the total weight exceeds 240 kg (530 lb) including any cargo.
If it is difficult to balance the vehicle at a standstill, proceed as follows:

1) The passenger must steady the water vehicle while the operator is boarding. The operator pulls himself up onto the footrest floor into a seating position, then balances the vehicle.

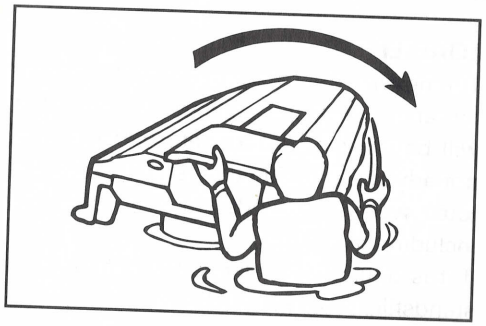
2) Attach the lanyard to your left wrist, then install the lock plate on the lanyard to the engine stop switch. Start the engine and keep it at idle.

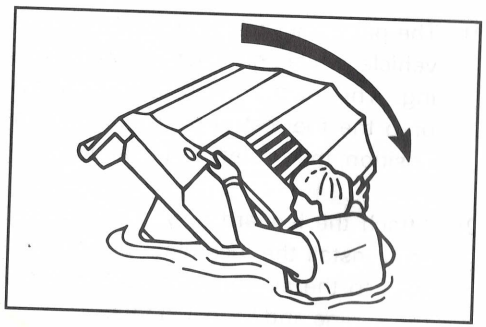
3) The passenger pulls himself up on the floor kneels down, then crawls onto the seat as the vehicle accelerates.

⚠WARNING

Strong streams of water from the jet nozzle can be dangerous, and can result in injury when directed at body orifices (rectum and vagina). Do not open the throttle until each passenger is seated with feet on the floor and is holding on to the person in front of him or her.

4) The water vehicle can now be accelerated to planing speed, then the operator can reduce the throttle to the desired running speed.





EJJ16110***

CAPSIZED WATER VEHICLE

1) Turn off the engine by removing th engine stop switch lock-plate. Th engine will overheat when capsize because it has no water to pump a coolant.
2) Swim to the rear side of the vehicle Pull the vehicle over clockwise wit the left hand on the ride plate whil pushing down on the gunwale wit your right hand/foot.
   Do not turn the vehicle counterclock wise, or water may leak into the car buretor and engine.

NOTE:

If the right side of the capsized vehicle (view from rear of the vehicle) tilts upward, first tilt the vehicle so the right side is down by pressing down on the gunwale with your weight. Then turn the vehicle over as described.

3) Start the engine using normal proce- dure, then head for shore to inspect engine for water damage.

⚠WARNING

IMPROPER UPRIGHTING CAN CAUSE INJURY:

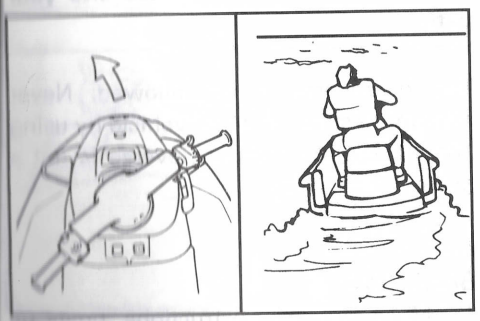
- **Shut off engine.**
- **Do not put hand in intake grille.**
- **Watch so you are not hit by vehicle as it comes over.**

TO TURN OVER:

- **Pull vehicle over with left hand on ride plate while pushing down on gunwale with right hand/foot.**

CAUTION:

If the vehicle has been capsized for 5 minutes or more, air may have entered the oil injection system. Leave the engine off, or operate only at trolling speeds, for 10 minutes after the vehicle has been put right-side up. This will allow any air to bleed off.



EJJ18111

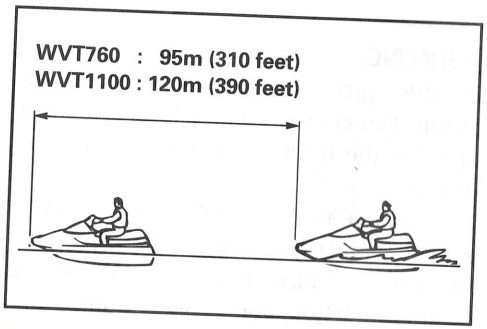
TURNING

Throttle produces thrust from the jet pump. Directional control is provided by opening the throttle and turning the handlebars.

To make a turn at higher than trolling speed: Reduce your speed, then turn the handlebars and shift your weight in the desired direction, and apply enough throttle to make your turn. High thrust turns the vehicle sharply; low thrust turns less sharply. Releasing the throttle completely causes the vehicle to go straight. TURNS CANNOT BE MADE WITHOUT APPLYING THROTTLE!

⚠WARNING

- **A beginner tends to release the throttle lever when trying to steer clear of an obstruction. Do not forget to use the throttle when turning.**
- **Making quick turns at higher speeds may cause the water vehicle to "spin out", and could throw the rider or passenger off the vehicle. Make gradual turns at higher speeds.**



EJJ20111

STOPPING

The water vehicle is not equipped with separate braking system.
It is stopped by water resistance when th throttle lever is released. From full spee the water vehicle stops in approximate 95~120 m (310~390 ft) after the throttle released and the engine stopped. Th stopping distance varies depending o gross weight, water surface condition and wind direction. The stated stoppin distance should be used for a reference.

⚠WARNING

Allow adequate stopping distance. Fai ure to begin slowing soon enough coul cause you to hit an obstacle you ar approaching. Do not shut off the engin when slowing down in case you nee engine power to steer away from a boa or other obstacle that comes into you path.

Use of reverse is not allowed: Neve attempt to stop the water vehicle by usin "Reverse". The reason: Reverse is not brake.

EJJ22010***

BEACHING

1) Make sure no obstructions, boats o swimmers are near the beach. Release the throttle lever about 95~120 m (310~390 ft) before the intended landing area.
2) Approach the beach slowly and stop the engine before reaching landing point. Remember: turning is impossible with the engine stopped.
3) Get off the vehicle and pull it up on the beach.

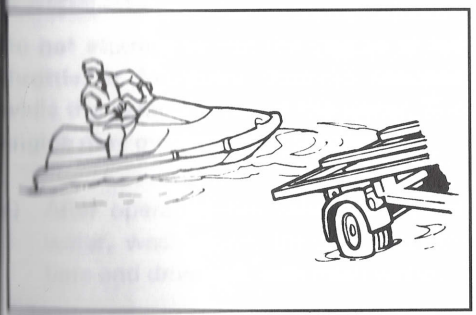
CAUTION:

Small pebbles, sand, seaweed, and other debris can be ingested into the jet intake and impair or damage the impeller. Always stop the engine and get off before beaching the vehicle.

EJJ24110***

DOCKING

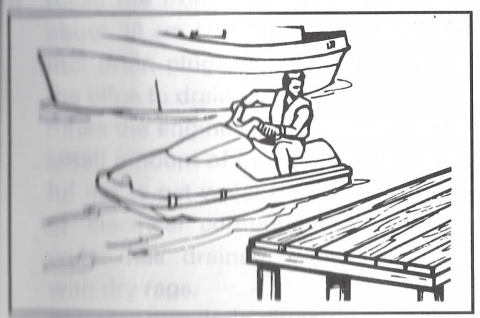
1) Make sure no obstructions, boats or swimmers are close to the water vehicle. Reduce speed about 95~120 m (310~390 ft) away from the dock.
2) Slowly approach the dock and stop the engine just before coming alongside it.



EJJ26010***

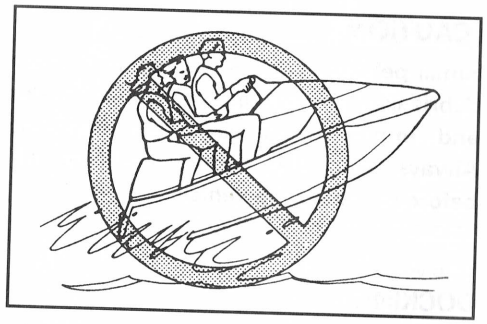
LAUNCHING

Make sure there are no obstructions behind you. When the vehicle is in the water, start the engine. Shift into reverse and move the vehicle back slowly. If there are waves, someone should watch to make sure the vehicle is not pushed into the trailer before backing away.



REVERSE (ON WATERWAYS)

Reverse can be used for slow speed maneuvering when it is necessary to back up out of tight spots where you cannot turn around.



EJL28010

ROUGH WATER OPERATION

Operating in rough water or jumpi waves can crack the vehicle body or da age internal parts. The force of landi after jumping can cause a strong impa on both the water vehicle and the oper tor. It is possible for the operator to hit h chest or jaw on the vehicle body or ha dlebars and be injured. Do not ride wi your chin right above the handlebars with your feet outside the vehicle. Avo riding in rough water or bad weather co ditions.

⚠WARNING

Operating in rough water or jumpin waters can lead to injury. It may als damage the vehicle.

EJL30011

POST-OPERATION CHECKS

After removing the vehicle from the water, raise the rear of the vehicle 30 cm (12 in.) for a period of 5 to 10 seconds to drain water from the muffler box.

) Flush cooling system to prevent the cooling system from clogging up with salt, sand, or dirt.
"Refer to pages 4-1 for the cooling system flushing procedure."

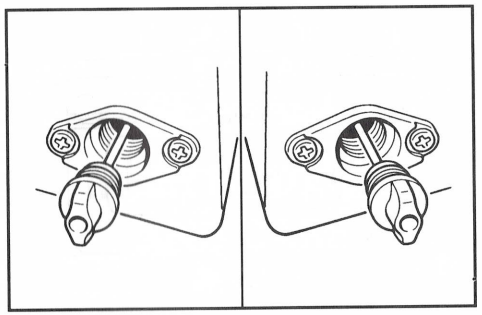
) Drain residual water from the exhaust system by alternately pulling and releasing the throttle lever for a period of 10 to 15 seconds while the engine is running.

CAUTION:

Do not attempt to run the engine at full throttle or for more than 15 seconds while the vehicle is out of the water. The engine may overheat and/or seize.

4) After operating the vehicle from the water, wash down the hull, handlebars and drive unit with fresh water.

5) Raise the front of the Water Vehicle about 30 cm (12 in.) and remove two hull drain plugs. Allow any water in the bilge to drain out.
Rinse the engine compartment with a small amount of fresh water. Be careful not to get water on the carburetor or electrical components. After the water has drained, wipe the bilge with dry rags.
Reinstall two drain plugs.



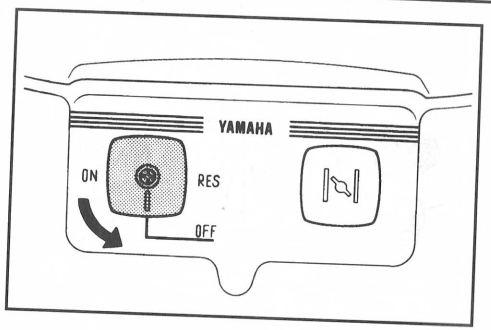
NOTE:

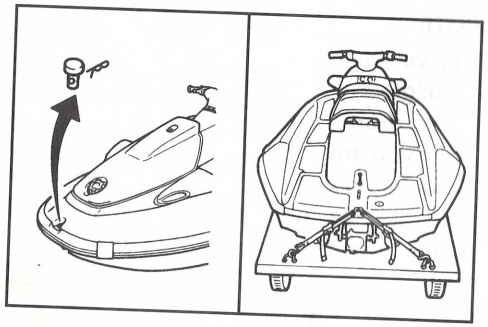
This vehicle is equipped with an automatic bilge-draining device that removes water from the engine compartment while you are underway.
However, some residual water remains that must be drained by removing two drain plugs.

⚠WARNING

Always properly dispose of gasoline (petrol) soaked rags. They can spontaneously ignite.

6) Spray a rust inhibitor, such as Yamaha Silicone Protectant and Lubricant, on metallic parts to minimize corrosion.





EJJ50210***

TRANSPORTATION

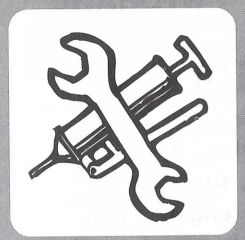
⚠WARNING

Always place the fuel cock in the "OF position when transporting the wat vehicle. Otherwise, fuel could leak o into the engine or engine compartmer which would create a fire hazard.

When transporting the water vehicle on trailer, lock the bow with a pin to the tra er and secure the stern with ropes or t downs through the rope hole(s) on th rear footrest floor.

CAUTION:

- **Do not route ropes or tie downs ov the seat, as they may leave permaner marks on the seat's surface. Also wra the ropes or tie downs with towels rags where they touch the body of th water vehicle to avoid scratching damage.**
- **Before putting the water vehicle on th trailer or transporting it, be sure to pu the shift lever in "Forward". Otherwis the reverse gate may hit an obstruc tion, causing damage.**



EJL00010***

Chapter 4

MAINTENANCE AND CARE

STORAGE 4-1
Cooling system flushing 4-1
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Battery 4-5
Cleaning 4-5

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Bleeding the oil injection pump 4-23

SPECIFICATIONS 4-24

4

EJL10010***

STORAGE

⚠WARNING

Always place the fuel cock in the "OF position when storing the water vehic Otherwise, fuel could leak out into t engine or engine compartment, whi would create a fire hazard.

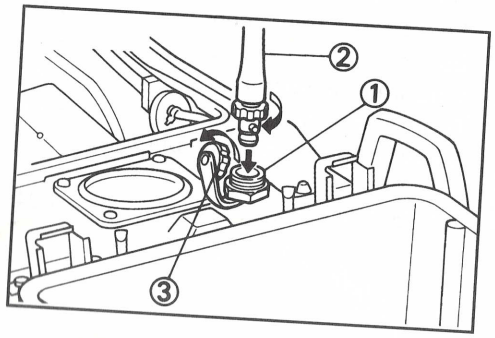
Water vehicle storage for prolonged pe ods of time, such as winter storag requires preventative maintenance ensure against deterioration. It is advi able to have the water vehicle serviced b an authorized Yamaha Water Vehic dealer prior to storage. However, the fo lowing procedures can be performed b the owner with a minimum of tools.

EJL12310

COOLING SYSTEM FLUSHING

Cooling system flushing is essential i order to prevent the cooling system fro being clogged with salt, sand, or dirt.

1) Open the cap. Press the flush kit gar den hose adapter into the flush hos connector and turn until they ar securely connected



① Flush Hose Connector
② Garden Hose Adapter
③ Cap

2) Start the engine, then immediately turn on the water supply fully.

CAUTION:

Never turn on the water before starting the engine. The water could flow back through the muffler into the crankcase causing severe engine damage.
Be sure to turn on the water immediately after starting the engine to prevent engine overheating.

3) Run the engine at a fast idle for 10~15 minutes.

4) Turn off the water supply and force the remaining water out of the cooling system by quickly opening and closing the throttle several times for 10 to 15 seconds.

CAUTION:

Never have the water on when the engine is not running. The water could flow back through the muffler into the crankcase causing severe engine damage. Do not run the engine for more than 15 seconds after the water supply has been turned off to avoid engine overheating.

5) After stopping the engine, remove the garden hose adapter.

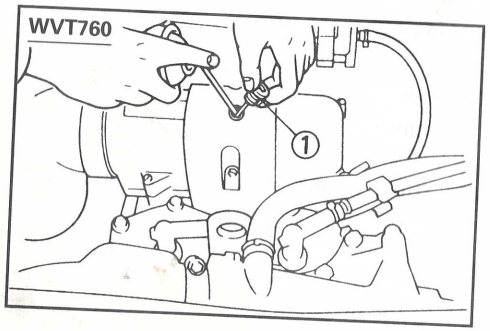
6) Replace the cap securely.

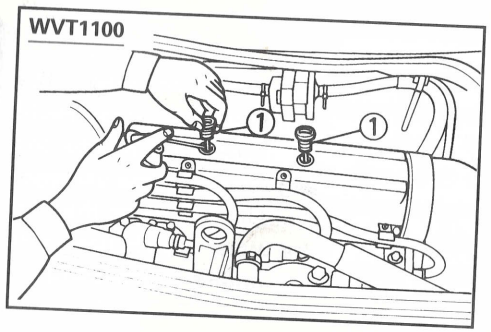
EJL17113

LUBRICATION

⚠WARNING

To reduce the risk of fire or explosion: Never pour or spray gasoline, or an other substance except engine foggin oil through the hole(s) in the carburet silencer cover.





CAUTION:

- **Be sure to replace the cap(s) securel after fogging the engine. Otherwis water could enter the engine and caus damage.**
- **Do not attempt to run the engine at ful throttle or for more than 15 second while the vehicle is out of the water The engine may overheat and/or seize.**

1) Open the cap ① on the carburetor silencer cover.

NOTE:

Open the cap(s) by turning counterclockwise.

2) With the water vehicle in a well-ventilated area, start the engine.
3) With the engine running at a fast idle, quickly spray as much Yamaha Stor-Rite Fogging Oil (Part No. LUB-STRRT-12-00) or an equivalent, as possible into the carburetor through the hole(s) in the silencer cover. Keep spraying until the engine stalls (or a maximum of 15 seconds). Reinstall the cap(s) securely.

4) Remove the spark plugs and pour approximately one tablespoon of oil into each cylinder.

5) Grease the spark plug threads and reinstall the spark plugs.

6) Lubricate all cables such as the throttle, choke, and steering cables.

NOTE:

Use a Yamaha Power Cable Luber (Part No. ACC-11110-43-11) and Yamaha Lube-Zall (Part No. ACC-LUBEZ-AL-L0) to pressure lubricate the cables and purge out any moisture between the inner and outer cables.

7) Grease the areas of the water vehicle specified in "Grease Points" in the ADJUSTMENT AND MAINTENANCE section.

EJL15010

FUEL SYSTEM

1) Top off the fuel tank with fresh fuel/oil mixture and add one ounce of Yamaha Fuel Conditioner and Stabilizer (Part No. LUB-FUELC-12-00) to each gallon of fuel.

NOTE:

Use of Yamaha Fuel Conditioner and Stabilizer eliminates the need to drain the fuel system. Consult your Yamaha dealer or other qualified mechanic if the fuel system is to be drained instead.

JL20010****

BATTERY

1) When the machine is not to be use for a month or more, remove the ba tery and store it in a cool, dark plac Clean the battery's casing and term nals using a mixture of baking sod and water (one tbsp. of baking sod to one cup of water). Apply dielectri grease or petroleum jelly to the ba tery terminals and to all exposed con nectors.
2) If the battery is to be stored for longer period, check the specific grav ity of the fluid at least once a mont and recharge the battery if it gets to low.

Specific gravity: 1.28 at 20°C (68°F)

EJL22010****

CLEANING

1) Wash down the hull, handlebars, and drive unit with fresh water.
2) Rinse the engine and bilge area with fresh water. Drain off all water and wipe up remaining moisture with clean, dry rags.
3) Spray the engine's exterior with Yamaha Silicone Protectant and Lubricant (Part No. LUB-SLCNE-13-00).
4) Wax the hull with a non-abrasive wax such as Yamaha Silicone Wax (Part No. ACC-11000-15-02).
5) Wipe all vinyl and rubber components, such as the seat and engine compartment seals, with a vinyl protectant such as Yamaha Protectant (Part No. ACC-11001-19-00).

EJL40111

ADJUSTMENT AND MAINTENANCE

Periodic inspection, adjustment and lubrication will keep your water vehicle in the safest and most efficient condition possible. Safety is an obligation of the vehicle owner. The most important points of vehicle inspection, adjustment and lubrication are explained on the following pages.

If replacement parts are necessary, use genuine Yamaha parts or the equivalent. Remember that failures which are the result of the installation of parts or accessories which are not qualitatively equivalent to genuine Yamaha parts are not covered by the limited warranty.

⚠WARNING

Be sure to turn off the engine when you perform maintenance unless otherwise specified. If the owner is not familiar with machine servicing, this work should be done by a Yamaha dealer or other qualified mechanic.

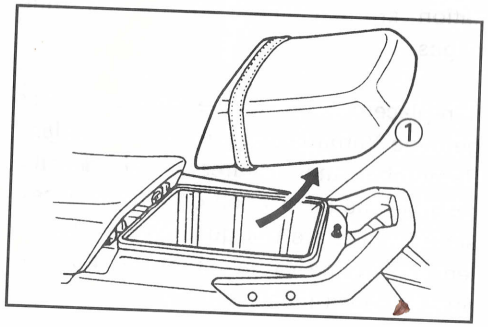
⚠WARNING

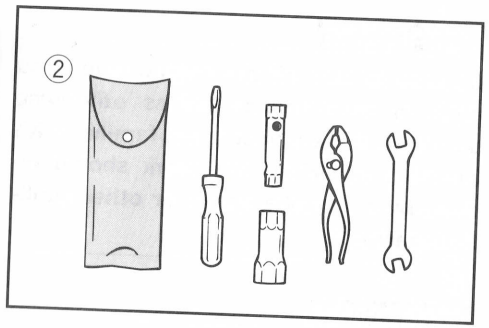
Modifications to this machine not approved by Yamaha may cause loss of performance or excessive noise, or render it unsafe for use. Consult a Yamaha Water Vehicle dealer or other qualified mechanic before attempting any changes.

OWNER'S MANUAL AND TOOL KIT

It is advisable always to carry the Owner's Manual and Tool Kit with you whenever you use the water vehicle. For the convenience of the user, a storage space is provided on the vehicle. (Refer to "STORAGE CONTAINER/STORAGE COMPARTMENT") To protect these materials from water, it would be a good idea to put them in a vinyl bag.

The service information included in this manual is intended to provide you, the owner, with the necessary information for completing your own preventive maintenance and minor repairs. The tools provided in the owner's tool kit are sufficient for this purpose, except that a torque wrench is also necessary to properly tighten nuts and bolts.





① Storage space for tool kit and Owner's Manual
② Tool kit

EJL42011

PERIODIC INSPECTION CHART

Frequency of maintenance operations may be adjusted according to the operating conditions, but the following table gives general guidelines.

The mark (●) indicates the checkups which you may do yourself.
The mark (○) indicates work to be done by your Yamaha dealer.

Item \ Maintenance interval		Initial			Thereafter every		Page
		10 hours	50 hours	100 hours	100 hours	200 hours	
			3 months	6 months	6 months	12 months	
Spark plug	Inspection/Cleaning Adjustment	●	●	●	●		4-14
Greasing points	Greasing			●	●		4-15
Bearing housing	Greasing	○*1		●*2	●*2		4-17
Starter motor idle gear	Greasing	○*3		●*4	●*4		4-18
Fuel system	Inspection			○	○		4-9
Fuel filter	Checking/Replacement	○				○	4-10
Fuel tank	Cleaning					○	4-10
Oil injection system	Inspection/Cleaning	○				○	4-11
Carburetor setting	Inspection/Adjustment	○		○	○		4-21
Trolling speed	Adjustment			●	●		4-21
Carburetor throttle shaft	Inspection			○	○		–
Cooling-water passages	Cleaning/Flushing		● (after every ride)				4-1
Bilge strainer	Cleaning		●	●	●		–
Impeller	Inspection		●	●	●		–
Steering cable	Inspection			●	●		4-12
Shift cable and mechanism	Inspection/Adjustment			●	●		4-12
Throttle cable and choke cable	Inspection/Adjustment			●	●		4-13, 4-18
Drain plugs	Inspection/Replacement					●	3-5
Battery	Inspection	● (Inspect fluid level before every ride)					4-19
Rubber coupling	Inspection					○	–
Bolts and nuts	Retightening	○		○	○		–

*1: Grease capacity: 33.0~35.0 cm³ (1.11~1.18 oz.)
*2: Grease capacity: 6.0~8.0 cm³ (0.20~0.27 oz.)
*3: Grease capacity for WVT760/WVT1100: 8.0cm³ (0.27 oz.)
*4: Grease capacity for WVT760/WVT1100: 2.0cm³ (0.07 oz.)

EJL44011

FUEL SYSTEM INSPECTION

⚠WARNING

Gasoline (Petrol) and its vapors are highly flammable and explosive.

Check the fuel system for leaks, cracks, or malfunctions. If any problem is found, do the necessary repair or replacement as required. If repair is necessary, consult your nearest Yamaha Water Vehicle dealer.

Checking points

- Carburetor leakage.
- Fuel pump malfunction or leakage.
- Fuel tank leakage.
- Fuel hose joint leakage.
- Fuel hose cracks or other damage.
- Fuel filter leakage.
- Fuel cock leakage.
- Air vent check valve leakage.

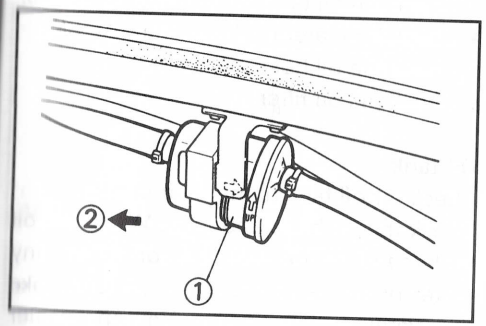
⚠WARNING

Failure to check for and repair fuel leakage may result in fire or explosion.

EJL46010***

FUEL FILTER

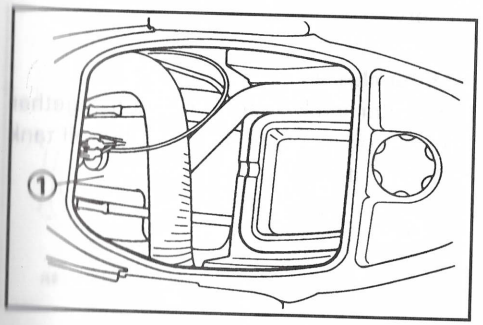
The fuel filter is a one-piece, disposable type. The filter should be replaced once a year or after every 200 hours of operation, or if water is found in the filter, take the water vehicle to your Yamaha dealer if fuel filter replacement is required.



① Fuel filter
② Bow

⚠WARNING

Do not try to change the fuel filter yourself. An incorrectly installed filter can leak gasoline (petrol), which could lead to fire or explosion. Take the water vehicle to your Yamaha dealer for fuel filter replacement.



EJL48010***

FUEL TANK

When the fuel tank needs to be cleaned or when any water is found in the fuel system, take the water vehicle to your Yamaha dealer for service.

① Fuel tank

EJL60312

OIL INJECTION SYSTEM INSPECTION

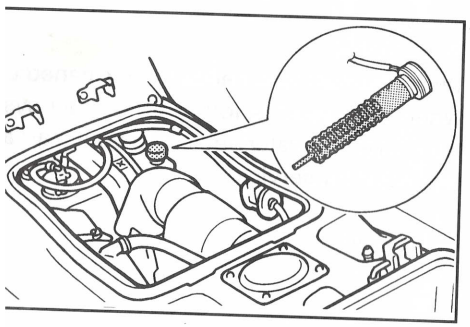
Check the oil injection system for leaks, cracks, or malfunctions. If any problem is found, do the necessary repair or replacement as required. If repair is necessary, consult your nearest Yamaha dealer.

Checking points

- Check the oil tank for damage or cracks.
- Check for water or dirt in the oil tank.
- Check the oil hose and joint.
- Check the oil filter.

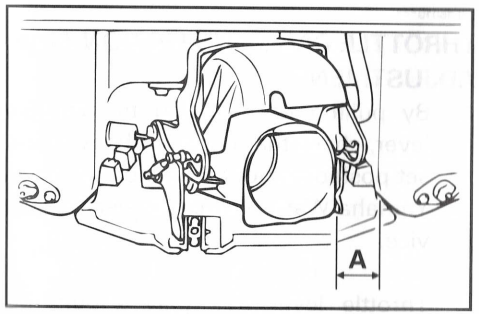
Oil tank

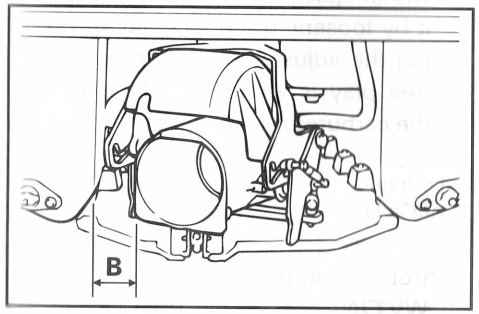
Check for oil tank damage or cracks.
Check the oil hose and joint. When the oil tank need to be cleaned, or when any water or dirt is found in the oil tank, take the water vehicle to your Yamaha dealer for service.

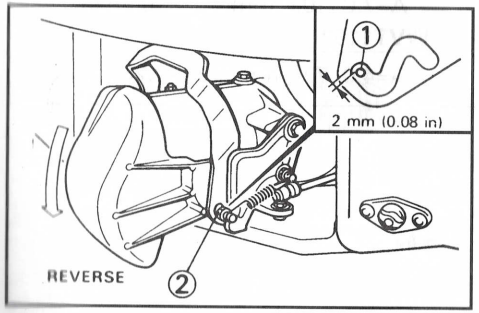


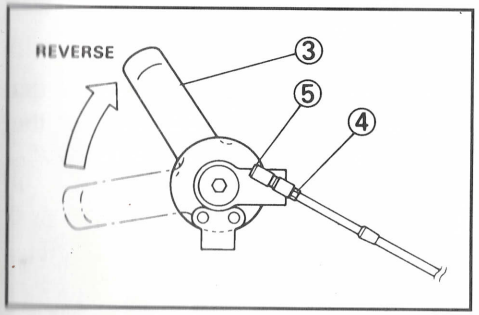
Oil filter cleaning

If the filter is clogged, remove it together with the oil level sender from the oil tank and clean it.









EJL62010

STEERING CABLE INSPECTION

1) Check the smooth operation of the handlebars and steering nozzle.

2) Turn the handlebars from lock to lock and check that the clearances between the steering nozzle and the hull are even on both right and left sides.
   A=B
   If steering is stiff or misadjusted, ask your Yamaha dealer to service it.

EJL64110***

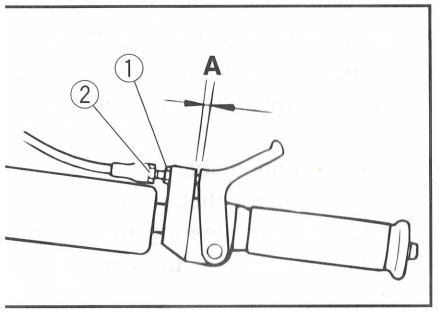
SHIFT CABLE AND MECHANISM INSPECTION AND ADJUSTMENT

Place the shift lever in REVERSE position, then reverse gate at the jet nozzle will go down to the REVERSE side. Turn the handlebars fully to the port (left) side.
At this position, the clearance between the pin and the pin slot end of the shift rod lever should be 2 mm (0.08 in).
If not, adjust it by turning the cable end at the shift lever side.

CAUTION:

Be sure to fit the projection on the shift cable bracket into the slit of the outer cable. Failure to do so may cause improper shift control.

① Pin
② Shift rod lever
③ Shift lever
④ Lock nut
⑤ Cable end



1/8 Free Play

Troy - 342-1405

EJL66010***

THROTTLE CABLE INSPECTION AND ADJUSTMENT

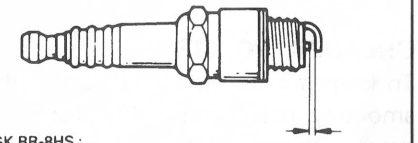
1) By pulling or releasing the throttle lever, check that it moves back to the set position smoothly. If not, ask your Yamaha Water Vehicle dealer for service.

2) Throttle lever free play should be within specification. If it is not, adjust it by loosening the lock nut and turning the adjuster so that throttle lever free play is within specification with the carburetor at idle position.

① Lock nut
② Adjuster

Throttle lever play:
WVT760
A=7.0~10.0 mm (0.28~0.39 in)
WVT1100
A=4.0~7.0 mm (0.16~0.28 in)

Fuel Filter
Wave Venture
WVT 1100 V



EJL80010***

SPARK-PLUG CLEANING AND ADJUSTMENT

The spark-plug is an important engine component and is easy to inspect. The condition of the spark-plug can indicate something about the condition of the engine. For example, if the centre electrode porcelain is very white, this could indicate an intake air leak or carburetion problem in that cylinder. Do not attempt to diagnose any problems yourself. Instead, take the water vehicle to a Yamaha Water Vehicle dealer. You should periodically remove and inspect the spark-plug because heat and deposits will cause the spark-plug to slowly break down and erode. If electrode erosion becomes excessive, or if carbon and other deposits are excessive, you should replace the spark-plug with another of the correct type.

Standard spark plug:
BR-8HS

Before installing the spark-plug, measure the electrode gap with a wire thickness gauge; adjust the gap to specification if necessary.

Spark plug gap:
0.6~0.7 mm (0.024~0.028 in)

When fitting the plug, always clean the gasket surface and use a new gasket. Wipe off any dirt from the threads and screw in the spark-plug to the correct torque.

Spark plug torque:
25 Nm (2.5 m•kg, 18 ft•lb)

NOTE:

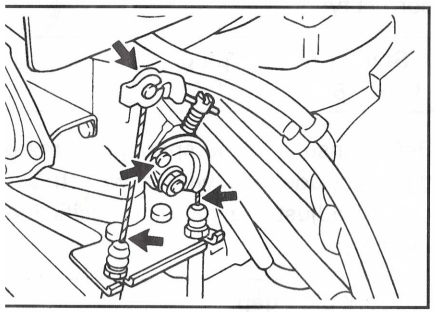
Before installing the spark plug cap, be sure to wipe off any water on the spark plug or inside the cap. Push the spark plug cap down until it clicks.

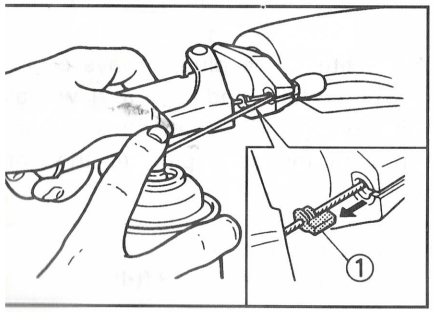
NOTE:

If a torque-wrench is not available when you are fitting a spark-plug, a good estimate of the correct torque (with a new gasket) is 1/4 to 1/2 a turn past finger-tight. Have the spark-plug adjusted to the correct torque as soon as possible with a torque wrench.

⚠WARNING

When removing or installing a spark plug, be careful not to damage the insulator. A damaged insulator could allow external sparks, which could lead to explosion or fire.





EJL81010

GREASING POINTS

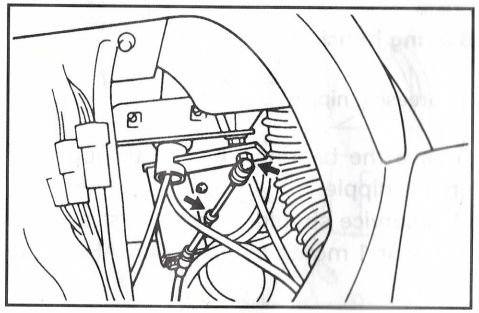
To keep moving parts sliding or rotating smoothly, coat them with water resistant grease (Yamaha Marine Grease, YAMAHA grease A) or equivalent.

Throttle cable and choke cable

1) Grease the carburetor throttle cable and choke cable inner wires.

2) Pull the throttle lever and remove the seal. Spray a rust-inhibitor into the outer cable. Refit the seal securely.

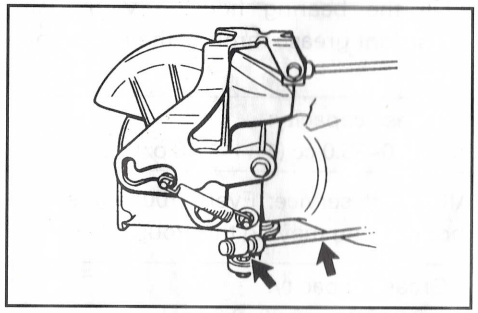
① Seal



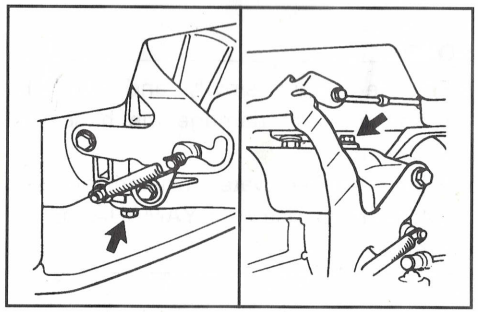
EJL82015

Steering cable ball joints and inner wire

1) Grease the steering cable ball joints both on the handlebar side and on the steering nozzle side.



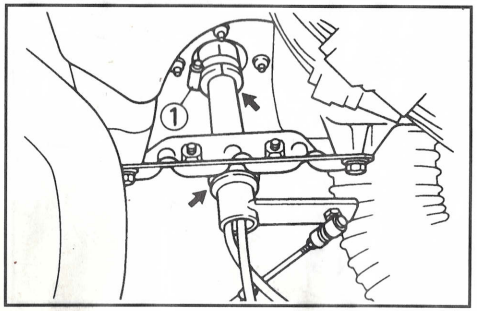
2) Extend the steering cable inner wire, and apply a thin coat of grease to it both on the handlebar side and on the steering nozzle side.



EJL83115

Steering nozzle pivot shaft

Grease the steering nozzle pivot shaft collar.

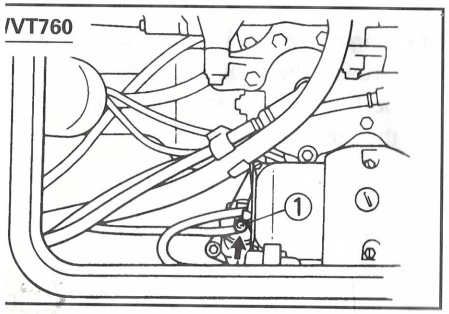


Steering handle pivot shaft

Grease the handle pivot shaft and bushing.

If the steering shaft becomes loose, tighten the band until a satisfactory feel is obtained.

① Band

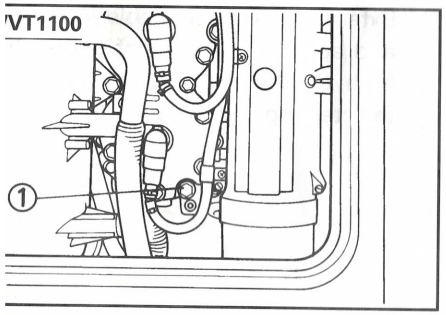


EJL89010

Bearing housing

① Greasing nipple

Grease the bearing housing through the grease nipple.
This service should be done first after 10 hours or 1 month by your YAMAHA dealer.

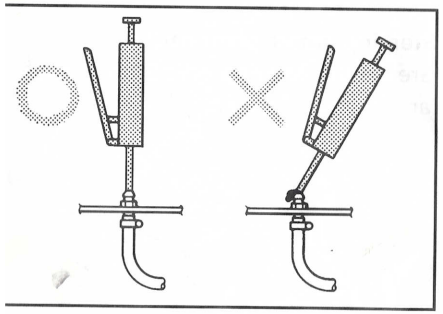


- Fill the bearing housing with water resistant grease through the grease nipple.

Grease capacity: 33.0~35.0 cc (1.11~1.18 oz)

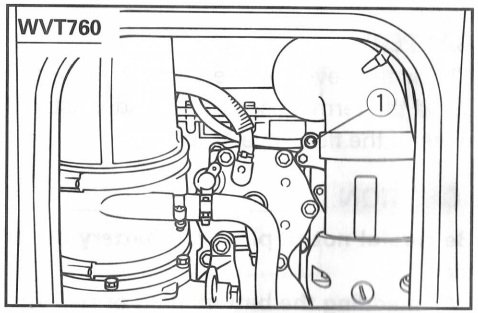
After first service: Every 100 hours or 6 months (you may do this yourself)

Grease capacity: 6.0~8.0 cc (0.20~0.27 oz)



NOTE:

- Fill the grease slowly and carefully, because it can damage the hose and the joints.
- Recommended water resistant grease : YAMAHA grease A or YAMAHA marine grease.

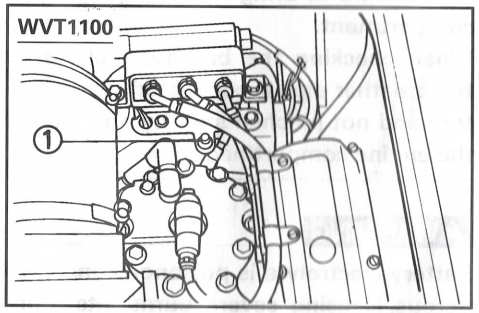


EJL84010

Starter motor idle gear

① Greasing nipple

Grease the starter motor idle gear through the grease nipple.
This service should be done first after 10 hours or 1 month by your YAMAHA dealer.



- Fill the starter motor idle gear with water-resistant grease through the grease nipple.

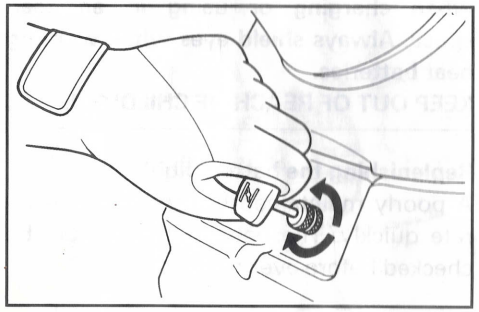
Grease capacity: 8.0 cc (0.27 oz)

After first service: Every 100 hours or 6 months (you may do yourself.)

Grease capacity: 2.0 cc (0.07 oz)

NOTE:

- Fill the grease slowly and carefully, because it can damage the hose and the joints.
- Recommended water resistant grease: YAMAHA Grease A or YAMAHA Marine Grease.



EJL87010***

CHOKE CABLE ADJUSTMENT

Pull the choke knob out until it stops. Release the knob. The knob should not move. If it moves back on its own, tighten the friction adjustment slightly. If the knob is difficult to move, loosen the friction adjustment slightly.

EJN00010***

BATTERY

Check the level of the battery fluid and see if the terminals are tight. Add distilled water if the fluid level is low.

CAUTION:

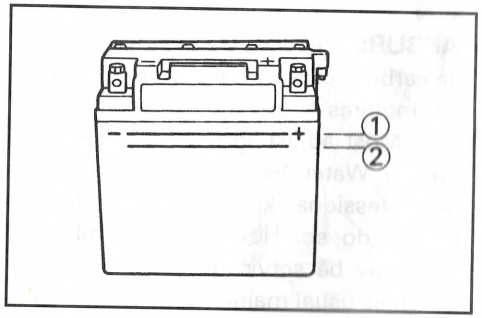
Be careful not to place the battery on its side.
When adding the battery fluid or recharging, be sure to bring it out of the engine compartment.
When checking the battery, make sure the breather pipe is connected to the battery and not pinched shut by any part of the engine compartment.

⚠WARNING

Battery electrolyte is poisonous and dangerous, causing severe burns, etc. Contains sulfuric acid. Avoid contact with skin, eyes or clothing.
Antidote: EXTERNAL-Flush with water. INTERNAL-Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call physician immediately.
Eyes: Flush with water for 15 minutes and get prompt medical attention. Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc., away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.
KEEP OUT OF REACH OF CHILDREN.

Replenishing the battery fluid

A poorly maintained battery will deteriorate quickly. The battery fluid should be checked before every ride.



1) The level should be between the upper and lower level marks. If refilling is necessary, use only distilled water.

① Upper level
② Lower level

CAUTION:

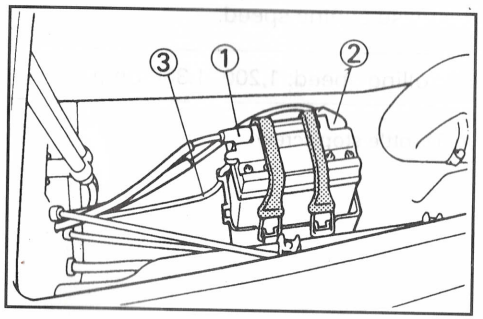
Normal tap water contains minerals which are harmful to a battery; therefore, refill only with distilled water.

Recharging

⚠WARNING

- **When charging the battery keep it well away from sparks and open flames, as it gives off explosive gases.**
- **When using a battery charger, connect the battery to the charger before you turn the charger on. This will prevent sparking at the terminals which could ignite battery gases.**

1) Remove the caps from the cells. Add distilled water if necessary to top up the electrolyte to the proper level.
2) Connect the battery to a charger. Set the charging rate at 1.9 amps, and charge it for 10 hours.



Connecting the battery terminals

- Always make sure the connections are correct when you insert the battery in the water vehicle. Make sure that the breather pipe is properly connected and that it is not damaged or obstructed.

① Positive (+) — Red lead
② Negative (–) — Black lead
③ Breather pipe

EJN01010

CARBURETOR ADJUSTMENT

The carburetor is a vital part of the engine and requires very sophisticated adjustment. Most adjusting should be left to a Yamaha Water Vehicle dealer who has the professional knowledge and experience to do so. However, the following point may be serviced by the owner as part of his usual maintenance routine.

CAUTION:

The carburetor was set at the Yamaha factory after many tests. If the settings are disturbed without having technical knowledge, poor engine performance and damage may result.

EJN02011

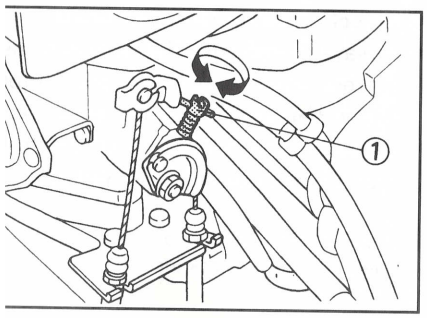
Trolling speed

NOTE:

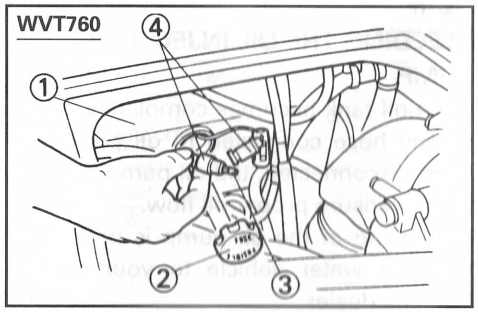
A diagnostic tachometer must be used for this procedure.

Place the water vehicle afloat. Start the engine and warm it up for one or two minutes.
Using a diagnostic tachometer adjust the engine speed to specification. Turn the throttle stop screw clockwise to increase engine speed or counterclockwise to decrease engine speed.

Trolling speed: 1,200~1,300 r/min



① Throttle stop screw



EJN04010***

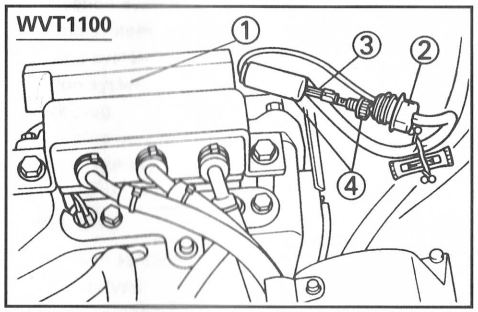
FUSE REPLACEMENT
WVT760

The fuse is in the electrical box. To replace the fuse, remove the cap ,pull out the red lead, and bring the fuse box out of the electrical box. Open the fuse box and replace the fuse.

① Electrical box
② Cap
③ Fuse (10A)
④ Fuse box

⚠WARNING

Do not use fuses of higher amperage that those recommended. Substitution of a fuse of improper rating can cause extensive electrical system damage and possible fire.



EJN04110

FUSE REPLACEMENT
WVT1100

The fuse is in the ignition coil holder. To replace the fuse, pull out the grommet connected to two red leads , and bring it out with the fuse box. Open the fuse box and replace the fuse.

① Ignition coil holder
② Grommet
③ Fuse (10A)
④ Fuse box

⚠WARNING

Do not use fuses of higher amperage that those recommended. Substitution of a fuse of improper rating can cause extensive electrical system damage and possible fire.

EJN06011

BLEEDING THE OIL INJECTION PUMP

If the oil tank becomes completely empty or any hose connected to oil pump has been disconnected, the oil pump must be bled to ensure proper oil flow.

If bleeding of the oil pump is necessary, take the water vehicle to your nearest Yamaha dealer.

EJN50012

SPECIFICATIONS

Item \ Model	Unit	WVT760	WVT1100
VEHICLE CAPACITY			
Maximum people on board	Number of people	3	3
Maximum load capacity	kg (lb)	240 (530)	240 (530)
DIMENSIONS			
Length	mm (in)	3,150 (124.0)	3,150 (124.0)
Width	mm (in)	1,250 (49.2)	1,250 (49.2)
Height	mm (in)	1,050 (41.3)	1,050 (41.3)
Dry weight	kg (lb)	250 (551)	271 (597)
PERFORMANCE			
Maximum output	kW (PS)/rpm	66.2 (90)/6,350	80.9 (110)/6,500
Maximum fuel consumption	L/h (US gal/h, Imp gal/h)	38.0 (10.0, 8.4)	46.0 (12.2, 10.1)
Cruising range/at full throttle	hr.	1.3	1.0
ENGINE			
Engine type		2-stroke	2-stroke
Number of cylinder		2	3
Displacement	cc (cu.in)	754 (46.01)	1,051 (64.14)
Bore & stroke	mm (in)	84 × 68 (3.31 × 2.68)	81 × 68 (31.9 × 2.68)
Compression ratio		Front 7.2, Rear 6.8	5.8
Lubrication system		Oil injection	Oil injection
Cooling system		Water-cooled	Water-cooled
Starting system		Electric starter	Electric starter
Ignition system		Digital ignition	C.D.I.
Spark plug	NGK	BR8HS	BR8HS
Spark plug gap	mm (in)	0.6~0.7 (0.024~0.028)	0.6~0.7 (0.024~0.028)
Battery capacity	V-AH	12-19	12-19
Charging system		Flywheel magneto	Flywheel magneto
DRIVE UNIT			
Propulsion system		Jet pump	Jet pump
Jet pump type		Axial flow, single stage	Axial flow, single stage
Impeller rotation		Counter clockwise (Rear view)	Counter clockwise (Rear view)
Transmission		Direct drive from engine	Direct drive from engine
Steering (nozzle) angle		28°±1°	28°±1°
FUEL AND OIL			
Recommended fuel		Unleaded regular gasoline Minimum octane rating: PON 86/RON 90	Unleaded regular gasoline Minimum octane rating: PON 86/RON 90
Recommended engine oil		YAMALUBE 2 STROKE OUTBOARD OIL, or an equivalent TC-W3 certified outboard oil	YAMALUBE 2 STROKE OUTBOARD OIL, or an equivalent TC-W3 certified outboard oil
Fuel tank capacity	L (US gal, Imp gal)	50 (13.2,11) Including 12 (3.17, 2.64) reserve	50 (13.2,11) Including 12 (3.17, 2.64) reserve
Oil tank capacity	L (US gal, Imp gal)	3.8 (1.00, 0.84)	3.8 (1.00, 0.84)

– MEMO –

EJQ00010***

Chapter 5
TROUBLESHOOTING & EMERGENCY PROCEDURE

TROUBLESHOOTING 5-1
Troubleshooting chart 5-1

EMERGENCY PROCEDURES 5-3
Cleaning the jet intake and impeller 5-3
Connecting jumper cable 5-4
Towing the water vehicle 5-6
Submerged water vehicle 5-7

)10010***

TROUBLESHOOTING

any trouble happens on your water vehicle, use this section to check for the possi-e cause.

you can not find the cause, or if the procedure for replacement or repair is not scribed on this owner's manual, ask your Yamaha Water Vehicle dealer or quali-d mechanic for the proper service.

e trouble shooting chart contains "TROUBLE", "POSSIBLE CAUSE", "REMEDY", EFER PAGE".

eck the possible cause and remedy, and also the referred page for the mainte-nce steps, to solve the trouble.

2011

OUBLESHOOTING CHART

TROULE	POSSIBLE CAUSE		REMEDY	Refer Page
e engine does not rt	**Starter motor does not turn over**			
	• Stop switch	Lock plate is not in place	• Install lock plate	2-9
	• Fuse	Burned out	• Replace the fuse and check wiring	4-22
	• Battery	Run down	• Recharge	4-20
		Poor terminal connections	• Tighten as required	4-20
	• Starter component	Faulty	• Have service at Yamaha dealer	—
	Starter motor turns over			
	• Fuel cock	"OFF" position	• Turn the fuel cock to "ON"	2-8
	• Fuel	Empty	• Refill as soon as possible *1	3-1
		Stale or contaminated	• Have service at Yamaha dealer	4-10
	• Fuel tank	Water or dust collected	• Have service at Yamaha dealer	4-10
		Built-up pressure	• Open the fuel tank filler cap and release pressure	2-7
	• Spark Plug	Fouled or defective	• Clean or Replace	4-14
	• Spark Plug cap	Not fitted or loose	• Fit properly	4-14
	• Crankcase	Filled with fuel	• Have service at Yamaha dealer	—
		Filled with water	• Crank engine with plug out until clean	5-7
	• Fuel filter	Clogged or water collected	• Have service at Yamaha dealer	4-10
	• Choke	Knob automatically return	• Tighten the choke cable tennsion adjust nut	4-18

*1 .....Turn the fuel cock to "RES (reserve)" to return to shore.

TROULE	POSSIBLE CAUSE		REMEDY	Refer Page
The engine runs irregularly or stalls	• Fuel	Empty	• Refill as soon as possible *1	3-1
		Stale or contaminated	• Have service at Yamaha dealer	4-10
		Oil and gasoline (petrol) mixture is too rich (for pre-mix model)	• Correct to right mixture (for pre-mix model)	—
	• Choke	Knob is left pulled	• Push it in fully	2-9
	• Fuel filter	Clogged or water collected	• Have service at Yamaha dealer	4-10
	• Fuel tank	Water or dust collected	• Have service at Yamaha dealer	4-10
	• Spark Plug	Fouled or defective	• Replace	4-14
		Incorrect heat range	• Replace	4-14
		Gap incorrect	• Adjust	4-14
	• Spark Plug cap	Loose	• Fit properly	4-14
		Loose electrical connections	• Tighten or connect properly	—
		Cracked, torn or damaged	• Replace	—
	• Carburetor	Incorrect idle adjustment	• Adjust	4-21
		Clogged	• Have service at Yamaha dealer	—
Warning indicator / symbol blinks	• Fuel level	Empty	• Refill as soon as possible *1	3-1
	• Engine oil level	Empty	• Refill immediately	3-2
		Oil filter clogged	• Clean	4-11
	• Engine overheat *2	Jet intake clogged	• Clean	5-3
The water vehicle speeds too slow or loses power	• Cavitation	Jet intake clogged	• Clean	5-3
		Impeller damaged or worn	• Have service at Yamaha dealer	—
	• Engine overheat *2	Jet intake clogged	• Clean	5-3
	• Fuel Filter	Clogged	• Have service at Yamaha dealer	4-10
	• Spark plug	Fouled or defective	• Replace	4-14
		Incorrect heat range	• Replace	4-14
		Gap incorrect	• Adjust	4-14
	• Spark plug caps	Loose	• Fit properly	4-14
	• Fuel	Stale or contaminated	• Have service at Yamaha dealer	4-10

*1 .....Turn the fuel cock to "RES (reserve)" to return to shore.

*2 .....Engine speed will be limited to 3,000 r/min by the overheat warning device.

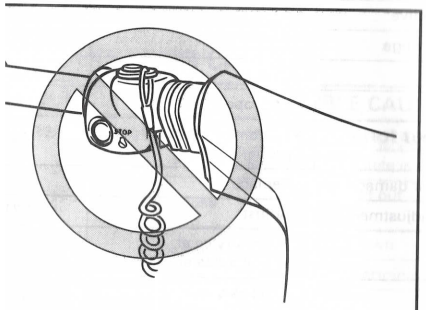
EJQ30010***

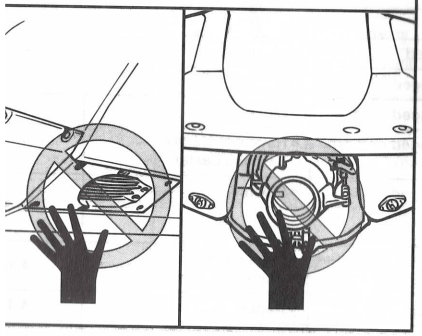
EMERGENCY PROCEDURES

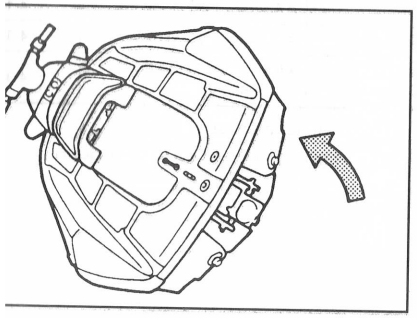
EJQ32010***

CLEANING THE JET INTAKE AND IMPELLER

If weeds or debris get caught in the intake or impeller, cavitation can occur, and though the engine speed rises, forward thrust will decrease. If this condition is allowed to continue, the engine will overheat and may seize. If there is any sign that the jet intake or impeller is clogged with weeds or debris, beach the vehicle and check the intake and impeller. Always stop the engine before beaching the vehicle.







⚠WARNING

Before attempting to remove weeds or debris from the jet intake or impeller areas, shut off the engine and remove the engine stop switch lock-plate from the stop switch.

1) Turn the vehicle on its side as shown.

CAUTION:

Place a suitable clean cloth or carpeting underneath the vehicle to protect it from abrasions and scratches, and always turn the vehicle over on its port (left) sides.

When turning the vehicle on its side, support the front portion so the handlebars cannot be bent or damaged.

2) Remove any weeds or debris from around the drive shaft, impeller, pump housing, and steering nozzle. If it is difficult to remove them, consult your Yamaha Water Vehicle dealer.

CAUTION:

Always avoid running your vehicle in areas where weed growth is thick. If travelling in weeded areas is unavoidable, run the engine alternately at partial-throttle and full-throttle. Weeds tend to accumulate more at a steady speed and at trolling speed. If weeds clog the intake or impeller area and cause cavitation, follow the above cleaning procedure.

EJQ34011

CONNECTING JUMPER CABLES

If the vehicle battery has run down, the engine can be started using a 12-volt battery and jumper cables.

⚠WARNING

Battery electrolyte is poisonous and dangerous. It contains sulfuric acid which can cause severe burns. Avoid contact with skin, eyes or clothing.

Antidote: EXTERNAL-Flush with water. INTERNAL-Drink large quantities of water or milk; follow with milk of magnesia, beaten egg, or vegetable oil. EYES-Flush with water for 15 minutes and get prompt medical attention.

Batteries give off explosive gases. Keep sparks, flame, cigarettes, etc. well away. If using or charging the battery in an enclosed area, make sure that it is well ventilated. Always shield your eyes when working near batteries.

EJQ35010

To connect the jumper cables

1) Connect the positive (+) terminals of both batteries with the positive (+) jumper cable.

2) Connect one end of the negative (–) jumper cable to the negative (–) terminal of the booster battery.

3) Connect the other end of the negative (–) cable to an unpainted bolt on the cylinder head.

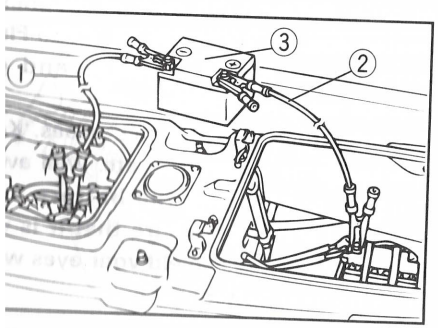
CAUTION:

Do not connect the end of the jumper cable to the negative (–) terminal on the vehicle battery! Be sure all connections are secure and correct before attempting to start the engine. Any wrong connection may damage the electrical system.

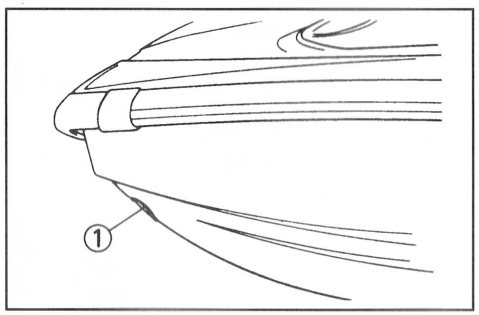
4) Start the engine, then disconnect the cables by reversing the above steps.

CAUTION:

Do not turn the starter motor for more than 5 seconds. If the engine does not start in 5 seconds, release the starter switch and try again after 15 seconds. Continuous cranking for more than 5 seconds will discharge the battery and the engine will not start.
The starter motor may also be damaged if it is engaged continuously for more than five seconds.



① Negative (–) jumper cable
② Positive (+) jumper cable
③ Booster battery



EJQ36210

TOWING THE WATER VEHICLE

If the vehicle becomes inoperative in the water, it can be towed to shore. The bow must be kept up out of the water during towing to prevent water from entering the engine compartment.
If the vehicle must be towed in an emergency using a tow rope, the operator should ride the vehicle, holding onto the handlebars.

CAUTION:

- **Tow the water vehicle slowly; water may enter the air intake and flood the engine compartment if the vehicle is towed too fast.**
- **Tow the vehicle using the bow eye only.**

① Bow eye

⚠WARNING

If the water vehicle is towed using a rope:

- **The water vehicle should only be towed in an emergency. The towing rope should be long enough so that the water vehicle will not collide with the towing boat when slowing down. A good rule of thumb is a tow rope which is three times the combined length of the towing boat and the water vehicle. A shorter length of rope can be used if the water vehicle is towed very slowly.**
- **The operator of the towing boat must keep speed to a minimum and avoid traffic or obstacles which could be a hazard to the rider on the water vehicle.**

EJQ38010***

SUBMERGED WATER VEHICLE

If the water vehicle is submerged or flooded with water, follow the procedure below and consult your Yamaha dealer as soon as possible. Failure to do so may result in serious engine damage!

1) Beach the vehicle and drain the water from the engine compartment by turning the vehicle on its side. When the water has drained, turn the vehicle upright again.

CAUTION:

Turning the water vehicle on its side with the hood open could cause damage to the hood. Use two people to hold the water vehicle by the hull so the handlebars do not touch the ground.

Remove the two drain plugs to drain the water. Refer to pages 3-5 "Bilge" for a description of this operation.

Set the fuel cock to "OFF".

Remove the spark plugs and dry them with a cloth.

Without reinstalling the spark plugs, crank the engine until all the water in the cylinders has been drained.

Reinstall the two drain plugs and the spark plugs.

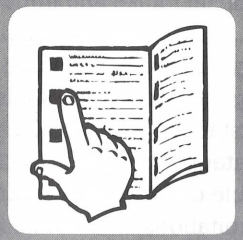
Set the fuel cock to "ON"

8) Launch the vehicle into the water again and run the engine for at least 10 minutes. If the engine will not start, repeat steps 3~7.

9) Turn the engine off. Set the fuel cock to "OFF".

10) Remove the cap(s) on the silencer cover and spray a rust inhibitor (such as Yamaha Stor-Rite Engine Fogging Oil) into the carburetor while cranking the engine.

11) Have your vehicle inspected by an authorized Yamaha Water Vehicle Dealer as soon as possible.



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EJT00010

LIMITED WARRANTY

YAMAHA MOTOR CORPORATION, U.S.A.
WATER VEHICLE LIMITED WARRANTY

Yamaha Motor Corporation is proud of its heritage and reputation for producing products with high standards of quality and workmanship. Product excellence provides the cornerstone for our commitment to customer satisfaction. The Yamaha Water Vehicle Limited Warranty is your assurance of this commitment.

This warranty provides you with protection against the expense of repairs for your water vehicle that are required as a result of defects in materials or workmanship. When maintained and utilized in the prescribed manner, you can count on your Yamaha water vehicle to provide reliable service.

This warranty provides you with specific coverage and notes your responsibilities in maintaining and operating your water vehicle. Please take the time to read and become familiar with this warranty.

PERIOD OF WARRANTY. Any new Yamaha water vehicle purchased for pleasure use from an authorized Yamaha water vehicle dealer in the United States, will be warranted against defects in material or workmanship for a period of one (1) year from date of purchase, subject to exclusions noted herein. Any Yamaha Water Vehicle purchased and utilized for commercial applications will be warranted for a period of ninety [90] days from the date of purchase, subject to exclusions noted herein. Replacement parts used in warranty repairs will be warranted for the balance of the applicable warranty period.

This warranty described here applies to water vehicles purchased and registered for use in the United States only. For warranty provisions outside the United States, contact the particular country's local Yamaha distributor.

REMAINING REPAIRS UNDER WARRANTY. During the period of warranty, any authorized Yamaha water vehicle dealer will, free of charge, repair or replace, at Yamaha's option, any parts adjudged defective by Yamaha due to faulty workmanship or material from the factory. All parts replaced under warranty will become the property of Yamaha Motor Corporation, U.S.A.

CUSTOMER'S RESPONSIBILITY. Under the terms of this warranty, the customer will be responsible for ensuring that the water vehicle is properly operated, maintained, and stored as specified in the applicable Owner's Manual.

The owner of the water vehicle shall give notice to an authorized Yamaha water vehicle dealer of any and all apparent defects within ten [10] days of discovery and make the vehicle available at that time for inspection and repairs at the dealer's place of business.

GENERAL EXCLUSIONS FROM WARRANTY. This warranty will not cover the repair of damage if the damage is a result of abuse or neglect of the product. Examples of abuse and neglect include, but are not limited to:
Racing or competition use, modification of original parts abnormal strain.
Lack of proper maintenance and off season storage as described in the Owner's Manual, installation of parts or accessories that are not equivalent in design and quality to genuine Yamaha parts.
Use of lubricants, oils, and fuel/oil mixtures that are not suitable for water vehicle motor use.
Damage as a result of accidents, collisions, contact with foreign materials, or submersion.
Growth of marine organisms on motor or hull surfaces.
Normal deterioration.
Hull coat stress cracks.

SPECIFIC PARTS EXCLUDED FROM WARRANTY. Parts replaced due to normal wear or routine maintenance such as oil, spark plugs, filters, impeller and liner, and anodes are not covered by warranty. Charges for transporting the water vehicle to and from an authorized Yamaha water vehicle dealer are excluded from warranty coverage.

TRANSFER OF WARRANTY. Transfer of the warranty from the original purchaser to any subsequent purchaser is possible by having the unit inspected by an authorized Yamaha water vehicle dealer and requesting the dealer to submit a change of registration to Yamaha Motor Corporation. U.S.A. within ten [10] days of the transfer.

YAMAHA MOTOR CORPORATION, U.S.A. MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITS SET FORTH IN THIS WARRANTY ARE HEREBY DISCLAIMED BY YAMAHA MOTOR CORPORATION, U.S.A. AND EXCLUDED FROM THIS WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ALSO EXCLUDED FROM THIS WARRANTY ARE ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING BUT NOT LIMITED TO THOSE ARISING FROM COMMERCIAL USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

YAMAHA MOTOR CORPORATION, U.S.A.
Post Office Box 6555
Cypress, California 90630

WARRANTY QUESTIONS AND ANSWERS

Q. What costs are my responsibility during the warranty period?
A. The customer's responsibility includes all costs of normal maintenance services, non-warranty repairs, accident and collision damages.

Q. What are some examples of "abnormal" strain, neglect, or abuse?
A. These terms are general and overlap each other in areas. Specific examples include:
Running the water vehicle out of oil, operating the machine with a broken or damaged part which causes another part to fail, and so on. If you have any specific questions on operation or maintenance, please contact your Yamaha water vehicle dealer for advice.

Q. Does the warranty cover incidental costs such as transportation due to a failure?
A. No. The warranty is limited to repair of the water vehicle itself.

Q. May I perform any or all of the recommended maintenance shown in the Owner's Manual instead of having the dealer do them?
A. Yes, if you are a qualified mechanic and follow the procedures specified in the Owner's and Service Manual. We do recommend, however, that items requiring special or equipment be done by a Yamaha water vehicle dealer.

Q. Will the warranty be void or cancelled if Ido not operate or maintain my new water vehicle exactly as specified in the Owner's Manual?
A. No. The warranty on a new water vehicle cannot be "voided" or "cancelled". ***However, if a particular failure is caused by operation or maintenance other than as shown in the Owner's Manual, that failure may not be covered under warranty.***

Q. What responsibility does my dealer have under this warranty?
A. Each Yamaha water vehicle dealer is expected to:
1. Completely set up each new water vehicle before sale.
2. Explain the operation, maintenance, and warranty requirements to your satisfation at the time of sale, and upon your request at any later date. In addition, each Yamaha water vehicle dealer is held responsible for his setup, service and warranty repair work.

Q. Is the warranty transferable to second owners?
A. Yes. The remainder of the existing warranty can be transferred upon request. The unit has to be inspected and re-registered by an authorized Yamaha water vehicle dealer for the policy to remain effective.

CUSTOMER SERVICE

If your water vehicle requires warranty service, you must take it to any authorized Yamaha water vehicle dealer within the continental United States. Be sure to bring your warranty registration card or other valid proof of the original date of purchase. If a question or problem arises regarding warranty, first contact the owner of the dealership. Since all warranty matters are handled at the dealer level, this person is in the best position to help you. If you are still not satisfied and require additional assistance, please write:

YAMAHA MOTOR CORPORATION U.S.A.
CUSTOMER RELATIONS DEPARTMENT
P.O. Box 6555
Cypress, California 90630

CHANGE OF ADDRESS

The federal government requires each manufacturer to maintain a complete, up-to-date list of all first purchasers against the possibility of a safety-related defect and recall. This list is complied from the purchase registrations sent to Yamaha Motor Corporation, U.S.A. by the selling dealer at the time of your purchase.
If you should move after you have purchased your new water vehicle, please advise us of your new address by sending a postcard listing your Yamaha model name, engine number, dealer number [or dealer's name] as it is shown on your warranty card, your name and new mailing address.
Mail to:

YAMAHA MOTOR CORPORATION, U.S.A.
P.O. Box 6555
Cypress, California 90630
Attention: Warranty Department

This will ensure that Yamaha Motor Corporation, U.S.A. has an up-to-date registration record in accordance with federal law.

AMAHA EXTENDED SERVICE (Y.E.S.)

eep your Yamaha protected even after your warranty expires with genuine Yamaha Extended ervice (Y.E.S.).

Y.E.S. is designed and administered by Yamaha Motor Corporation to provide maximum owner satisfaction. You get uninterrupted factory-backed coverage for extra peace of mind.

Y.E.S. is flexible. You choose the plan that's right for you: 12 months, 24 months, or 36 months beyond your warranty period.

Y.E.S. is designed and administered by the same Yamaha people who handle your warranty — and it shows in the comprehensive coverage benefits. There are no mileage limitations. Coverage isn't limited to "moving parts" or the "drive train" like many other plans. And Y.E.S. covers manufacturing defects just like the warranty. See the sample contract at your Yamaha dealer to see how comforting uninterrupted factory-backed protection can be.

You don't have to pay anything for covered repairs. There's no deductible to pay, and epairs aren't "pro-rated." You don't have any "out-of-pocket" expenses for covered repairs.

n addition, Travel and Recreation Interruption Protection (TRIP) is included at no extra cost. RIP gives you up to $150 reimbursement per occurrence for any reasonable expenses you ıcur because your Yamaha needs covered service: replacement vehicle rental, emergency wing, phone calls, even food and lodging when you are away from home. This superb cov- age goes into effect when you purchase Y.E.S., so it applies to any warranty repairs as well covered repairs during your entire Y.E.S. plan period.

E.S. coverage is honored at any authorized Yamaha dealer nationwide.

E.S. coverage is transferrable to a new owner if you sell or trade-in. That can make your maha much more valuable!

xcellent Y.E.S. plan coverage is only available to Yamaha owners like you, and only while Yamaha is still within the Yamaha Limited Warranty period. So visit your authorized ıa dealer to get all the facts. He can show you how easy it is to protect your investment amaha Extended Service.

ge you to act now. You'll get the excellent benefits of TRIP coverage right away, and est easy knowing you'll have strong factory-backed protection even after your Yamaha l Warranty expires. You can also save money: Y.E.S. costs less within the first 90 days ıu buy your Yamaha. See your dealer today!

al note:
ıg your dealer isn't convenient, contact Yamaha with your Primary ID number (your number). We'll be happy to help you get the Y.E.S. coverage you need.

Service Marketing
6555
CA 90630
-7631

Y E S

YAMAHA EXTENDED SERVICE

YAMAHA

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